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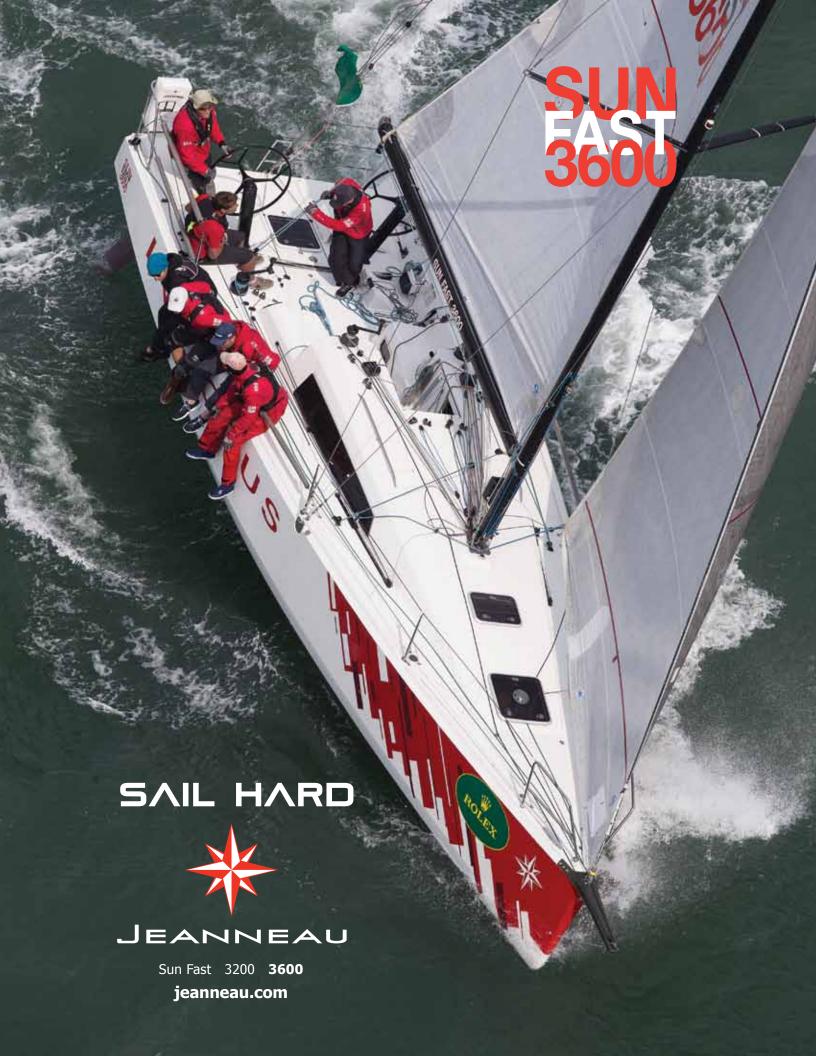
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Cover: Express 27s cluster together during	

Cover: Express 27s cluster together during the YRA Great Vallejo Race.

Photo Latitude /Tim

Questions concerning the 2018 YRA Calendar should be addressed to the YRA office at (415) 771-9500 or the appropriate class association.

Check the monthly edition of Latitude 38 and www.latitude38.com for calendar updates.

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The YRA welcomes you to the 2018 Racing Season

Welcome to the Yacht Racing Association's 2018 Racing Season. We've got the best racing value on the Bay, with lots of racing opportunities available to all types of racers.

Whether you sail a multihull, a classic woody or a one-design boat, sail on the ocean or under PHRF on the Bay, we've got races waiting for you.

This handy booklet serves as your reminder that it's time to renew your PHRF certificate and sign up to race for 2018. You can find information on the different racing opportunities in this publication and on the YRA website: www.yra.org.

We encourage everyone to get a YRA membership and sign up to race. We want to thank the YRA members, yacht clubs and their race committees who are sponsoring this year's YRA races.

Be sure to follow us on Twitter and Facebook to keep up with all the latest YRA news. You can find us on Twitter at YRAofSF-Bay and on Facebook at the YRA of SF Bay page.

Get those certificates renewed and get your entries in soon! We look forward to seeing you out on the start-





Don Ahrens

hrens Laura Muñoz

ing line for every race you're scheduled to sail.

Fair winds to all,

Don Ahrens,

Chairman of the Board, chairman@yra.org Laura Muñoz, Executive Director, info@yra.org Yacht Racing Association of San Francisco Bay 1070 Marina Village Parkway, #202-G, Alameda, CA 94501 (415) 771-9500; Fax (415) 276-2378;

info@yra.org; www.yra.org

Congratulations 2017 Season Winners

YRA Series

PHRF 2: Mintaka 4, Farr 38, Gerry Brown, BYC
PHRF 3: Sea Star, Cal 39, Bob Walden, BYC
PHRF 4: Neja, Dasher, Jim Borger, WYC
Sportboat: Cento Miglia, Flying Tiger 10, Mark Kennedy, SBYC

OYRA Series

PHRO 1: California Condor, Antrim Class 40, Buzz Blackett, RYC

PHRO 2: Escapade, Express 37, Nick Schmidt, SSS
PHRO 3: Yeti, Express 27, Adam Mazurkiewicz, SSS
SHS: Ragtime!, J/92, Bob Johnston/Dave Morris, RYC
Multihull: Trident, Corsair 31R, Damien Campbell, BAMA

CBRA Series

Folkboat: Josephine, Eric Kaiser/Kurt Hemmingsen, StFYC

Bird: Cuckoo, Bill Clausen, RYC

One Design Series

Santana 22: Alegre, Chris Klein, RYC

Islander 36: *Windwalker*, Richard Shoenhair, SSS **Express 37**: *Expeditious*, Bartz Schneider, SFYC

SSS

Singlehanded Monohull: *Archimedes*, Express 27, Joe Balderrama, SSS

Singlehanded Multihull: Ma's Rover, F-31R, Mark

Eastham, BAMA

Doublehanded Monohull: Six Brothers, Columbia C32, Chris Kramer, RYC

Doublehanded Multihull: *Lookin' Good*, Corsair Sprint, Rafi Yahalom, BAMA

Small Boats

El Toro Seniors: Cygnus, Art Lange, FSC/HPSC

El Toro Juniors: Chase Englehart, RYC Mercury: Axon, Doug Baird, SFYC Laser: Humble Pie, Marcel Sloane, SSC Laser Radial: Extreme Ways, Andrew John Holdsworth, StFYC

And More...

BAMA Cup: *Wingit*, F-27 tri, Amy Wells, BAMA **BAMA Fast Cat**: *HMB Boys* & *Girls Club*, D-Class cat,

Alan O'Driscoll, BAMA

Etchells: Capricorn, Ethan Doyle, SFYC

Express 27 Championship: *Peaches*, John Rivlin, StFYC

Express 27 Long Distance Series: Current Affair, Seth Clark, RYC

Express 37: *Expeditious*, Bartz Schneider, SFYC/StFYC

Islander 36: *Windwalker*, Richard & Tom Shoenhair, SSS

J/24: Shut Up and Drive, Valentin Lulevich, OPBYC

J/105: Blackhawk, Ryan Simmons, SFYC J/120: Chance, Barry Lewis, StFYC

Melges 24: Looper, Duane Yoslov, SFYC

Moore 24: *Mooregasm*, Stephen Bourdow, SCYC **SF Bay 30**: *Heart of Gold*, Olson 911S, Joan Byrne, SBYC

Ultimate 20: *U Decide*, Phil Kanegsberg, RYC **Wylie Wabbit**: *Weckless*, Tim Russell SFYC



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PAINT. WIN THE WAR.



2018 Racing Events

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January 7 & 21 February 4 & 18 March 4, 18, 25

First Gun 1200

New racers always welcome!



Rites of Spring

Saturday, March 17

Singlehanded, Doublehanded

and Full Crew

Sweet Sixteen

Wednesday Night Series

May 2-30 June 6 -20 July 18 & 25 • August 1-29 September 5

First Gun 1825

Challenging courses in protected waters.

Great food, fun and prizes at the
clubhouse afterwards

Oktoberfest

Saturday, October 13

Celebrate the spirit of Lederhosen and Dirndl in a race around Treasure Island to the clubhouse and have beer, brats and prizes!

- Please join us on race day for a cocktail or meal
- Awards given after every race
- · Guest docks available

Contact: race@oaklandyachtclub.com 1101 Pacific Marina, Alameda CA OYC Web: oaklandyachtclub.net

YRA Contacts

Board of Directors

CHAIRMAN OF THE BOARD* 2018-2019: Don Ahrens

(415) 308-9771, chairman@yra.org

IMMEDIATE PAST CHAIRMAN* 2015-2016: Charles Hodgkins

(510) 504-4076, charles@sailingmischief.com

SECRETARY* 2017-2018: Bob Naber

Hm (510) 769-0309, k38bob@aol.com

TREASURER* 2017-2018: Bobbi Tosse

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EXECUTIVE DIRECTOR: Laura Muñoz Wk (415) 771-9500. Cell (415) 994-4711.

Fax (415) 276-2378, info@yra.org

*Executive Committee

DIRECTORS AT LARGE

2018-2019 Vallejo YC Representative: (707) 643-1254, info@vyc.org
2018-2019 Corinthian YC Representative: (415) 435-4771, info@cyc.org
2018-2019 Sequoia YC Representative: (650) 361-9472, office@sequoiayc.org
2018-2019 Encinal YC Representative: (510) 522-3272, info@encinal.org

Series Presidents

In-the-Bay Series (Includes HDA/ODCA): Rich Pipkin

(510) 377-3269, rpipkin@aerosources.biz

Ocean Series (OYRA): Andy Newell

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CBRA, YRA REPRESENTATIVE: Don Wilson Hm (510) 527-1619, windansea@sprintmail.com

See page 16 for PHRF (Performance Handicap Racing Formula) committee.

US Sailing

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ARO, AREA G: Jeff Zarwell, (415) 595-8364, jzarwell@regattapro.com

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Paul Kamen, Hm (510) 540-7968, Fax (510) 540-6324, pk@well.com
Tom Roberts, Hm/Wk (415) 898-7802, tensleyrob@aol.com

John Siegel, (408) 234-0442, jasiegel@earthlink.net

Latitude 38 has made every effort to ensure the accuracy of all information, but please confirm your schedule with your fleet captain and look in the monthly Latitude 38 Race Calendar or on www.latitude38.com for changes. Due to space limitations, not all information could be included.



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- February 17-18

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April 13-August 24

X-Bay Regatta:

June 2

OYRA/SSS Drake's Bay Regatta:

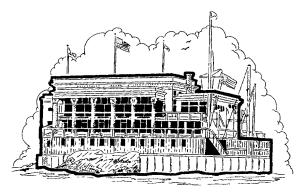
• August 18-19

YRA Season Closer:

• September 29-30

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Sponsoring Clubs

Berkeley Yacht Club (BYC) • (510) 843-9292 Bobbi Tosse c/o BYC, 1 Seawall Drive, Berkeley 94710

Corinthian Yacht Club (CYC) • (415) 435-4771 Marcus Canestra, c/o CYC, 43 Main Street, Tiburon 94920

Encinal Yacht Club (EYC) • (510) 522-3272

Ted Floyd c/o EYC, 1251 Pacific Marina, Alameda 94501

Golden Gate Yacht Club (GGYC) • (415) 346-BOAT

Charles Hodgkins, c/o GGYC, 1 Yacht Road, San Francisco 94123

Half Moon Bay Yacht Club (HMBYC) • (650) 728-2120 Terri Lahey c/o HMBYC, PO Box 52, El Granada 94018

Richmond Yacht Club (RYC) • (510) 237-2821 Gail Yando c/o RYC, PO Box 70295, Pt. Richmond 94807

St. Francis Yacht Club (StFYC) • (415) 563-6363 Graham Biehl c/o StFYC, On the Marina, San Francisco 94123

San Francisco Yacht Club (SFYC) • (415) 789-5647 Lisa Turner c/o SFYC, PO Box 379, Belvedere 94920

Sausalito Yacht Club (SYC) • (415) 331-9147 Mary Wand c/o SYC, PO Box 267, Sausalito 94966

Sequoia Yacht Club (SeqYC) • **(**650) 361-9472 Joanne Wright c/o SeqYC, 441 Seaport Court, Redwood City 94063

South Beach Yacht Club (SBYC) • (650) 302-1187

Andrew Lorenzen c/o SBYC

Pier 40 on the Embarcadero, San Francisco 94107

Vallejo Yacht Club (VYC) • (707) 643-1254 Mark Littlefield c/o VYC, 485 Mare Island Way, Vallejo 94590

Additional Associations

- **BAADS**: Bay Area Association of Disabled Sailors (415) 281-0212, www.baads.org
- BAMA: Bay Area Multihull Association Bob Naber, sfbchair@sfbama.org, www.sfbama.org
- BAYS: Bay Area Youth Sailing www.bayarea-youthsailing.com
- MMBA: Master Mariners Benevolent Association (415) 364-1656, mastermariners@hotmail.com, www.mastermariners.org
- NCORC: Northern California Ocean Racing Council www.norcalorc.org
- PICYA: Pacific Inter-Club Yacht Association
 Lynda Myers, (415) 602-9961, lyndapicya@gmail.com, www.picya.org

(401) 683-0840, (800) 877-2451, info@ussailing.org, www.ussailing.org

- SSS: Singlehanded Sailing Society (866) 724-5777, racechair@sfbaysss.org, www.sfbaysss.org
- U.S. COAST GUARD (Marine Event Permits): (415) 399-3440, Fax (415) 399-3480, www.uscg.mil
- US Sailing:

 15 Maritime Dr., Portsmouth, RI 02871

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Features

- 3 Sizes Available
- High-Resistant Duplex Stainless Link
- Easy to Rig
- Multiple Applications
- Soft Attachment







Features

- 3 Sizes Available
- High-Resistant Duplex Stainless
- Liahtweiaht
- Soft Attachment
- Multiple Applications Can Be Rigged Two Ways

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PHRF Committee 2018

If you have a custom or modified sailboat, your boat may need to have its rating reviewed and assigned by the local volunteer PHRF committee. With your boat's measurements, the committee will provide a fair rating so you can quickly join the Bay Area racing scene. From evening beer can racing to offshore regattas to just about every other keelboat race on the Bay, a PHRF rating will make it easy to sign up and start sharpening your skills on the race course. You can fill out the rating form on page 81 with help from detailed instructions provided on page 72-80.

The YRA also wants to thank the committee members below for their tireless efforts at supporting fun, fair racing on San Francisco Bay.

Antrim, Jim

Wk (510) 223-9680, Fax (510) 262-0303, ika@antrimdesign.com

Colombo, Bill

c/o Doyle Sails, Wk (510) 523-9411, Cell (510) 773-8015, Fax (510) 523-9433, doylepacific@gmail.com

Dees, Brooks

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Gurrola, George

Hm (510) 843-9417, ggurrola@comcast.net

Honey, Stan

Hm phone/fax (650) 328-3428, Wk (650) 961-7825, Cell (650) 269-3428, stanhoney@msn.com

Richards, Kame

Pineapple Sails, Hm (510) 522-3109, Wk (510) 522-2200, Fax (510) 522-7700, kame@pineapplesails.com

Sodaro, Robin

Hood Sails, Hm (415) 381-1223, Wk/cell (415) 332-4104, Fax (415) 332-0943, hoodsails@aol.com

Wijsen, Seadon

seadon.wijsen@northsails.com

Administrative Support: Laura Muñoz

1070 Marina Village Pkwy., #202-G, Alameda, CA 94501 Wk (415) 771-9500, Fax (415) 276-2378, phrf@yra.org

For Multihull ratings, please contact the Bay Area Multihull Association (BAMA) at info@SFBAMA.org, (650) 394-6343, www.SFBAMA.org.







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SAN FRANCISCO: (415) 543-7333 Drew Harper

drew.harper@me.com Garrett Greenhalgh soulofsailing@gmail.com

Rules

Latitude 38's Basic Racing Guidelines

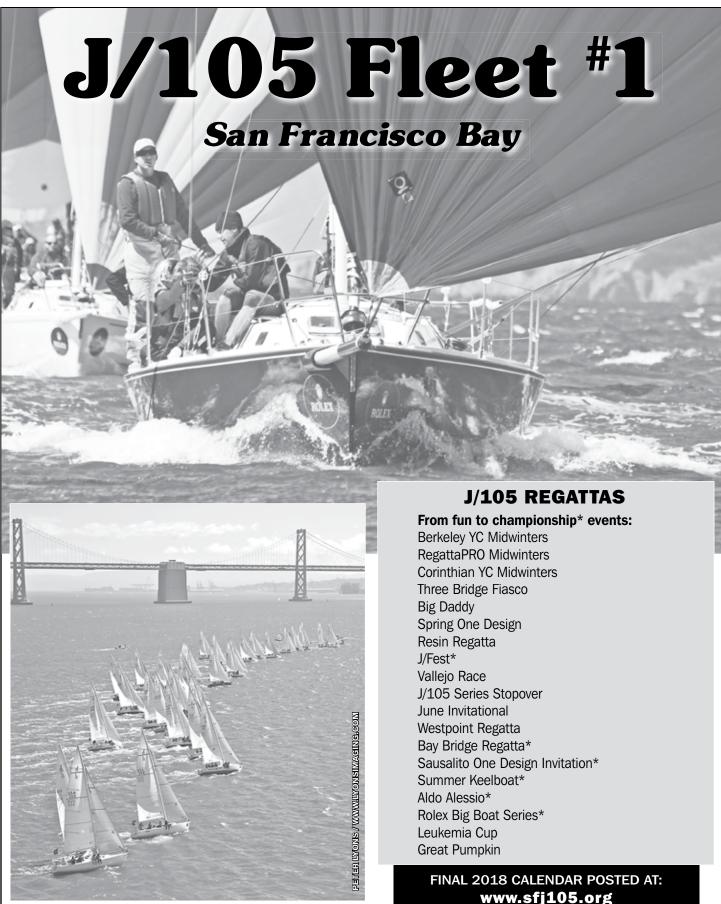
Since sailboat racing is a recreational sport, we think the number one rule should be to have fun. Beyond that, some basic guidelines help prevent collisions and ensure that racing is both fun and fair. Below is an outline of the 10 basic rules which cover most racing situations. For completeness and total accuracy, refer to *Racing Rules of Sailing 2017-2020*, published by US Sailing. See www.ussailing.org/rules for details.

1. Port tack keep clear of starboard tack.



- If boats are on the same tack and overlapped, the windward boat must keep clear of the boat to leeward.
- 3. If boats are on the same tack, a boat clear astern must keep clear of a boat clear ahead.
- 4. When tacking or jibing, keep clear of boats on a tack.
- 5. **Avoid collisions.** If you have the right of way and hit the other boat, causing damage or injury, you will both be penalized.
- 6. **Don't obstruct.** Don't make it hard for the 'keep clear' boat to do so. (No hunting allowed.)
- 7. **Sail the course** prescribed. You have to round the marks in the directions specified in the Sailing Instructions and can't touch a mark.
- 8. **Proper Course** (same tack, within two hull lengths). If the leeward boat came from astern, leeward boat shall not sail above its own proper course during the overlap. (Remember that the windward boat still has to keep clear, even if windward is forced above what it believes is windward's proper course. Leeward still has right of way.)
- 9. **Give room at marks and obstructions** to yachts overlapped on the inside, except:
 - a. When the overlap did not exist before the lead boat reaches the **three-boatlength zone**.
 - b. When approaching a windward mark on opposite tack.
 - c. At a starting mark surrounded by navigable water. That is, you don't have to let a barger in at the start except to avoid collision (then protest).
- 10. Acknowledge your fouls and protest those who

A free rule book comes with US Sailing membership. See www.ussailing.org.



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2018 Bucket List

The following is a list of select international events that should be on every sailor's dream list.

Caribbean

CONCH REPUBLIC CUP • January 26-February 3 Key West/Cuba, www.conchrepubliccup.org GRENADA SAILING WEEK • January 29-February 3 Grenada, www.grenadasailingweek.com

ANTIGUA 360 RTI RACE • February 16, Antigua, www.antiguayachtclub.com RORC CARIBBEAN 600 • February 19-23, Antigua, www.caribbean600.rorc.org

ST. MAARTEN HEINEKEN REGATTA • March 2-4, St. Maarten

(721) 544-2079, www.heinekenregatta.com MIAMI TO CUBA RACE • February 13-18

Miami, (954) 695-7168 • www.havanarace.org

ST. BARTHS BUCKET REGATTA March 15-18

St. Barths, FWI (781) 639-0203, www.bucketregatta.com

BVI SPRING REGATTA AND SAILING FESTIVAL, March 26-April 1

BVI (284) 541-6732, www.bvispringregatta.org

LES VOILES DE SAINT BARTH • April 9-15

St. Barth, www.lesvoilesdesaintbarth.com

ANTIGUA CLASSICS YACHT REGATTAI • April 18-24

Antigua Yacht Club, Ph/Fax (268) 460-1799, www.antiguaclassics.com

ST. BARTH WEST INDIES REGATTA • April 28-May 1

St. Barth, (268) 724-4435, www.westindiesregatta.com

ANTIGUA SAILING WEEKI • April 28-May 4 •

Antigua, (268) 725-6651, www.sailingweek.com

Hawaii & South Pacific

TAHITI PEARL REGATTA • May 7-12, 2018, International fleet racing

in the Leeward Islands of Tahiti. www.tahitipearlregatta.org.pf

TAHITI-MOOREA SAILING RENDEZ-VOUS • June 22-24, 2018 with Latitude 38. www.tahiti-moorea-sailing-rdv.com

SINGLEHANDED TRANSPAC • June 23, 2018

San Francisco Bay to Hanalei Bay, Kauai, Hawaii. www.sfbaysss.org

VIC-MAUI • June 30-July 4, 2018

2,300 miles from Victoria, BC, to Maui, Hawaii. www.vicmaui.org PACIFIC CUP • July 9, 2018

San Francisco to Kaneohe Bay, Oahu, Hawaii. www.pacificcup.org

TRANSPACIFIC YACHT RACE • July 2019

Los Angeles to Honolulu. www.transpacrace.com

<u>Mexico</u>

PV RACE • March 2-10, 2018

1,100-mile slide from San Diego to Puerto Vallarta. www.pvrace.com

BANDERAS BAY REGATTA • March 20-24, 2018

www.banderasbayregatta.com

NEWPORT TO ENSENADA • April 27-29, 2018

Newport Beach to Ensenada, Baja California. www.newporttoensenada.com

BAJA HA-HA • Leaves San Diego on Oct. 29. www.baja-haha.com

Australia & NewZealand

BAY OF ISLANDS SAILING WEEK • January 23-26, 2018. Buoy racing in New Zealand's Bay of Islands. www.bayofislandssailingweek.org.nz AUDI HAMILTON ISLAND RACE WEEK • August 18-25, 2018. Racing and partying in Australia's Whitsunday Islands.

www.hamiltonislandraceweek.com.au

ROLEX SYDNEY HOBART YACHT RACE • December 26, 2018 www.rolexsydneyhobart.com

ROYAL LANGKAWI INTERNATIONAL REGATTA • January 8-13, 2018 Large buoy racing regatta for everything from IRC divisions to multihulls. www.langkawiregatta.com

BORACAY CUP REGATTA • February 27-March 2, 2018 www.subicsailing.com

ROLEX CHINA SEA RACE • March 28, 2018

565-mile race from Hong Kong to Subic Bay, Philippines.

www.rhkyc.org.hk/rolexchinasearace.aspx

CHINA CUP INTERNATIONAL REGATTA • October/November 2018 www.chncup.com

PHUKET KING'S CUP • Early December 2018, Asia's premier yachting event. www.kingscup.com







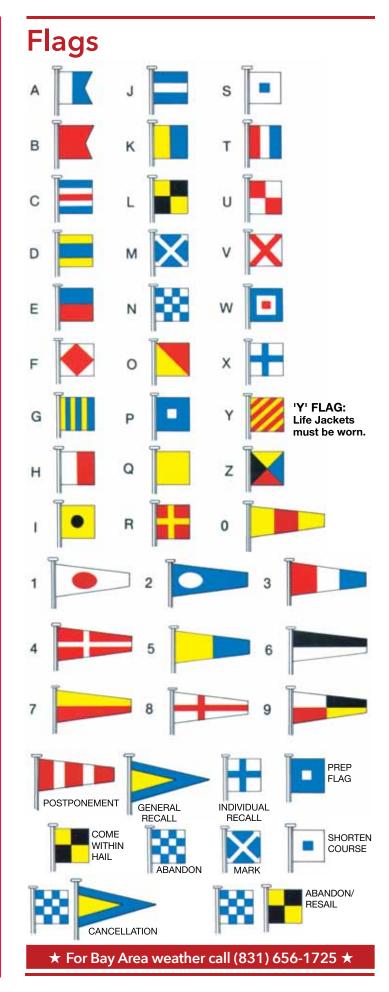
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indicates full moon. January 2018 12 19 26 18 25 → indicates 2-day races. YRA events indicated in bold type. **Weekday & Special Events** Saturday Jack Frost Midwinters #3, EYC - YRA 10 Chowder Series #12, BYC - OC January 1: Welcome to 2018 Midwinter #3, SYC - Knox Midwinter #3, GGYC - City Midwinter #1, TYC - NB Sunday Brunch Series #1, OYC - Estuary Martin Luther King Jr. Day January 15: Tiny Robbins Midwinter Series #4, VYC - NB Midwinter #2, RYC - SH Midwinter #5, BYC - OC → Midwinter #6, BYC - OC Winter Frostbite Series #3, BenYC - Carquinez Midwinter Island Days #3, IYC - Estuary Winter #3, SeqYC - SB Winter One-Design #3, SYC/RegattaPRO -OC/SH Santana 22 Team Racing, SCYC, Santa Cruz OC/SH 14 Midwinters, CYC - Knox → Midwinters, CYC - Knox Chowder Series #13, BYC - OC Island Fever #3, SBYC - SB Midwinter #3. SCYC - Santa Cruz Sunday Brunch Series #2. OYC - Estuary 20 Three Bridge Fiasco, SSS - CB Chowder Series #14, BYC - OC



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- Herb Hunt, Custom Farr 50 Wandering Farr, Caribbean

"Chris has precisely the qualities that a boat owner should be looking for in an insurance agent – he's responsive, efficient, and, most important, an ally when things go pear-shaped. Insurance protection has to be right for what you need and be there when you need it. Stuff happens with boats, and when it did for us, Chris was right there to make sure that it turned out well."

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- John & Sharon Warren, Passport 47 Warren Peace, La Paz, MX

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- Kame Richards, Express 37 Golden Moon, San Francisco Bay

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Youth Sailing

Looking for a new way to entertain your kids this year? Look no further than the Bay Area's dozens of junior sailing programs. Many offer scholarships, and, with rare exception, you don't need to have your own boat. Unless noted below, club membership is not necessary. High school sailing for students in grades 9-12 takes place around Northern California in the Pacific Coast Interscholastic Sailing Association. If your high school doesn't have a team – or enough students to field a team – don't fret. Most programs allow students from several schools to form a single team.

Alameda Community Sailing Center

(510) 629-9282, www.sailalameda.org

Summer Camp: ages 7-17. When: June, July and August.

Discover Sailing runs all summer – check website for when Seasoned Sailors and Teen Camp dates will be added. Needs-based scholarships available. Weekend classes, Open Sails and other sailing events will be scheduled throughout the year. Visit www.sailalameda.org for further details and cost.

Benicia YC

 $Derith\ Lutz, (707)\ 746\text{-}0739, youth sailing @beniciay achtclub.com$

www.beniciayachtclub.com

Dates TBA in late March. YC member discounts, sibling and multiple camp discounts, and scholarships available on all programs.

Half Day Camps: ages 8-12 with no sailing experience. Cost: \$275.

Full Day: One week camps: ages 10-18 or young sailors with experience. Cost: \$375.

Intermediate Sailing: more experienced sailors.

Boats: Vanguard 420, CFJ (provided). Cost: \$375.

High School Sailing Special Programs:

Boats: DeWitt Dinghies, V420, CFJ (provided). Sponsored by BenYC for Benicia High School students.

Open Sailing for pre-qualified individuals with certification.

Blue Water Foundation (San Francisco)

(415) 392-2018, www.bluewaterfoundation.org

Thursday Sails: Afternoon sail programs with San Francisco schools and SFPD to build relationships and provide experience to at-risk youth in the City.

Ocean's Gate Program: Working with Alameda County Probation Department; convicted youth are given the opportunity to make their way back to society; offering both day sails and a multi-month intensive sail training program.

Community Sail Programs: Community groups sails, ranging from science programs and SF Rec and Park programs to Project Avery and Edgewood Kinship, organizations for children of incarcerated parents. Weekdays and weekends.

Probation Dept. Sails: with various youth probation departments throughout the Bay Area and Nevada City/El Dorado County foothills, taking their incarcerated students and students on probation on repeat sails. Emphasis on building teamwork and self-confidence; mentor system is utilized. Sails are usually on weekends.

Coyote Point YC (San Mateo)

youthsailing@cpyc.com, www.cpyc.com/youth-sailing

Weekly sailing camp for children ages 8 to 13 who wish to learn to sail and/or improve their skills. Nine 8-ft. Optimist sailboats, two Lasers for the more advanced sailors.

2018 Summer Sessions: Monday to Friday 9 am-4pm.

Cost: \$450 per session. 15% off for second child.

Session 1: June 18-22; Session 2: June 25-29; Session 3: July 9-13;

Session 4: July 16-20; Session 5: July 23-27; Session 6: July 30-Aug 3; Session 7: Aug. 6-10.

Encinal YC (Alameda)

(510) 769-0221, coacheyc@gmail.com, www.encinal.org

Summer Learn to Sail Program: ages 6-18, all levels.

When: Three-week summer sessions. Monday-Thursday, AM, PM, or All Day available. Boats: Optimists, FJs, J/22s (provided).

Advanced Race Team: ages 9-18 by application only.

When: Spring/Summer/Fall.

Boats: Optimists, Lasers, FJs, 420s (provided).

High School Program: grades 8-12.

When: Weekends and after school September-April.

Boats: FJs (provided).

Scholarships available through the Encinal Sailing Foundation.

continued on page 22

February 2018 Weekday & Special Ever

→ indicates 2-day races. YRA events indicated in bold type.

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	- mulcates 2-day faces. THA Events mulcated in t	25 26 27 28
Weekday & Special Events	Saturday	Sunday
February 14: • Valentine's Day: Take your sweetheart for a sail.	Jack Frost Midwinter #4, EYC – YRA 10 Midwinter #4, GGYC – City SeqYC Winter #4, SeqYC – SB	Chowder Series #15, BYC – OC Midwinter #4, SYC – Knox Sunday Brunch Series #3, OYC – Estuary
February 19: • Presidents' Day: Take your president for a sail!	Midwinter #2, TYC – NB Tiny Robbins Midwinter Series #5, VYC – NB	Midwinter #3, RYC – SH
100	3	4
	Winter Frostbite Series #4, BenYC – Carquinez Midwinters #7, BYC – OC BAYS Winter Series, EYC – Estuary Redwood Cup #3, SeqYC – SB Winter One-Design #4, SYC/RegattaPRO– OC/SH Santana 22 Team Racing, SCYC, Santa Cruz	Midwinters #8, BYC - OC BAYS Winter Series, EYC - Estuary Midwinter Island Days #4, IYC - Estuary
	10	11
1	Midwinters, CYC – Knox → NorCal HS Regatta, SFYC → Island Fever #4, SBYC – SB Midwinter #4, SCYC – Santa Cruz	Midwinters, CYC – Knox NorCal HS Regatta, SFYC Chowder Series #16, BYC – OC Sunday Brunch Series #4, OYC – Estuary
	17	18
	Corinthian Race, SSS – CB Redwood Cup #4, SeqYC – SB	Chowder Series #17, BYC - OC Midwinters Champ of Champs, BYC - OC Safety at Sea Seminar, YRA - Berkeley Yacht Club
	24	25



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47th Annual Manuel Fagundes

SEAWEED SOUP

REGATTA

January 6, February 3, March 3

"SMALL CRAFT BEER" ADVISORY SERIES

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May 5, May 18
June 1, June 15, June 29
July 15, July 27
August 10, August 24

48th Annual Manuel Fagundes

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November 3 & December 1

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1 Yacht Road, San Francisco, CA 94123 (415) 346-2628 www.ggyc.org

Youth Sailing

continued from page 20

Gold Country Yacht Club

education@gcyc.net, www.ggyc.net

Youth sailing education program teaches beginning sailing on Sunfish sailboats. Classes are one week long, 9 am-4 pm each day.

Inverness YC

www.invernessyachtclub.org/youth-program-information

Youth Sailing Camp: ages 10 (as of 6/1/2018) to 18. On Tomales Bay (Marin County) Two three-week sessions: June 25-July 13 and July 17 (Tues) –Aug 3, 2018. When: Daily from 9 am-4 pm; 10 am-5 pm, depending on tides. Registration for Youth Sailing opens at 9 am on January 15 and fills quickly.

Fee: \$950 per session. Scholarships available.

Monterey Peninsula YC

junioradvisor@mpyc.org, www.mpyc.org

Varsity Sailing Team: grades 8-12. When: Practices weekly, September-June.

Junior Sailing Team: grades 6-7. When: Practices twice monthly, September-June.

Summer Sailing Camp: ages 8-17. When: Weekly sessions from June through the end of July. See website for more information about these programs.

Oakland Parks & Recreation

Sarah Herbelin, (510) 238-2196, www.sailoakland.com

Sailing into Science: Fifth graders (teachers may sign up their classes).

Where: Lake Merritt Boating Center. When: School year. Cost: \$350 per class per day (up to 32 students).

After-School Learn-to-Sail Program: ages 10-17.
Where: Lake Merritt Boating Center When: Weekday afternoons during the school year.

Cost: \$200/10 weeks.

Basic & Intermediate Summer Programs: ages 10-17.

Where: Lake Merritt Boating Center. When: One-week sessions, June-August. Cost: \$200/ Oakland residents; \$240/non-residents. Scholarships available for Oakland residents.

Advanced Summer Program: ages 11-17.

Where: Jack London Aquatic Center (Oakland Estuary).

When: One-week sessions, June-August.

Boats: Hobie 16s, Bytes (provided). Cost: \$250 Oakland residents; \$300/non-residents.

Youth Sailing Team, grades 8-12 from any school. Where: Jack London Aquatic Center (Oakland Estuary).

When: Practices and regattas on weekends spring and summer.

Boats: Laser 4.7s or club FJs (provided).

Cost: \$395-\$450/season. Scholarships available for Oakland residents.

Pegasus Project (Berkeley)

(510) 414-2796, www.pegasusvoyages.org/project.html

The mission of the Pegasus Project is to enable youth to become productive members of a sustainable society through positive outdoor environmental education and by reinforcing life skills. Objectives: Lifeskills Sails aboard *Pegasus* for youth including youth at risk; to provide youth participants (and adult crew) with a basic environmental understanding and appreciation of the San Francisco Bay; to provide a multi-year track for underprivileged youth that will enable them to experience their backvard Bay through on-the-water activities.

Richmond YC

(510) 237-2821, www.richmondyc.org

Parent or junior must be RYC member (junior membership easily obtained).

Summer Junior Camps and Clinics: ages 8-18. Register Mid January

When: One-week sessions.

29er Summer Camp: ages 14-18, 9:30 am-3:30 pm. Bring your own 29er: Some club boats available. 420/Laser Summer Camp: ages 14-18, 9:30 am-3:30 pm.

Bring your own boat. Some club boats available.

El Toro/Opti Summer Camp, ages 8-18, 9 am-3 pm.Some club Optis available for use during program hours only.

Winter Sailing: youth and juniors; 8-18. Register August 1st.

420s: October-March. Club boats available. High School: October-May. Club boats available.

29ers: October-May. Club boats available.

Lasers: October-March. Some club boats available.

Optimists: October-March. Some club boats available.

El Toros: October-March. Some club boats available.

J22: October-March. Some club boats available.

continued on page 24

		Saturday	Sunday
	March 2018 → indicates 2-day races. YRA events indicated in bold type. indicates full moon.	Winter Frostbite Series #5, BenYC – Carquinez Jack Frost Midwinter #5, EYC – YRA 10 Mercury Series #1, EYC – Estuary Midwinter #5, GGYC – City Single/Doublehanded #1, SeqYC – SB Midwinter #3, TYC – NB Tiny Robbins Midwinter Series #6, VYC – NB Long Distance Race #1, SSC – Stockton	Chowder Series #18, BYC – OC Midwinter #5, SYC – Knox Sunday Brunch Series #5, OYC – Estuary Midwinter #4, RYC – SH
	S M T W Th F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	California Dreamin' Race Series, StFYC – City → Big Daddy, RYC – OC → Redwood Cup #5, SeqYC – SB Santana 22 Team Racing, SCYC, Santa Cruz	California Dreamin' Race Series, StFYC - City Big Daddy, RYC - OC Chowder Series #19, BYC - OC Midwinter Island Days #5, IYC - Estuary Baxter-Judson Series #1, PresYC - CB Spring Series #1, SSC - Stockton
	March 3: Sail a Small Boat Day, RYC – Potrero Channel Latitude 38 Spring Crew List Party at the GGYC. Check Latitude 38 for more information or see www.latitude38.com.	Spring One-Design Regatta, StFYC - City → BAYS Winter Series, PYC - Estuary → Small Boat Races #1, EYC - Estuary Island Fever #5, SBYC - SB Winter #5 / St. Patrick's Day Race, SeqYC - SB Rosenblum Regatta, SFYC - Knox Doublehanded Long Dist. #1, SSC - Stockton Rites of Spring, OYC - CB/OC Midwinter #5, SCYC - Santa Cruz	Spring One-Design Regatta, StFYC – City BAYS Winter Series, PYC – Estuary Chowder Series #20, BYC – OC Sunday Brunch Series #6, OYC – Estuary Spring Series #2, SSC – Stockton
	March 14: March 17: St. Patrick's Day: Take an Irish friend sailing! Vernal Equinox	Spring Dinghy, StFYC - City → San Francisco Cup, StFYC - City → Doublehanded Farallones + DHWB + DHSB + DHG7 + DHBL, BAMA - Ocean Championship Series, CYC - Knox Jaws Pursuit Race, SYC - Knox/Blossom	Spring Dinghy, StFYC – City San Francisco Cup, StFYC – City Sunday Brunch Series #7, OYC – Estuary
FRED FAGO	Space of the same	Trans-Folsom Challenge, FLYC – Folsom Lake Sadie Hawkins Race, IYC – Estuary Single/Doublehanded #2, SeqYC – SB Champion of Champions Regatta, SCYC – Santa Cruz	





Most Orders

Placed by 4:30pm

Ship Same Day

Youth Sailing

continued from page 22

Sailing Education Adventures (San Rafael)

(415) 775-8779, www.sailsea.org/camps

Mini Camp: ages 8-10. Where: Loch Lomond Marina.

When: One-week sessions, Monday-Friday, 9 am-noon. Boats: Catalina 16.5 keelboats,

Capri 14.2s, RS Quests. Cost: \$325. Scholarships available.

Summer Camp Basic/Intermediate: ages 10-16.

www.sailsea.org/basicintermediate-camps Where: Marin YC.

When: Two-week sessions, Monday-Friday, 9 am-4 pm.

Boats: Laser Picos, Lasers. RS Quests and Quba.

Cost: \$725. Scholarships available.

Advanced/Intro Race Camp: ages 12-18. www.sailsea.org/advanced-camp

Where: Loch Lomond Marina.

When: One-week sessions, Monday-Friday, noon-4 pm.

Boats: Catalina Capris, RS Quests and Quba.

Cost: \$350. Scholarships available.

SEA Explorers: ages 8-16. www.sailsea.org/explorers

Where: Marin YC. When: One-week session, Monday-Friday, 9 am-4 pm.

Boats: Laser Picos, Catalinas, RS Quests and Quba.

Cost: \$425. Scholarships available.

Basic/Intermediate Camp and SEA Explorers Camp.

SF Maritime National Park Association (San Francisco)

Contact Education Coordinator, Alice Watts, for bookings: (415) 561-6662, sfmaritimecoordinator@gmail.com, www.maritime.org/edu

School Year Programming: The Age of Sail, overnight living history program aboard *Balclutha*, takes place in 1906. The Gold Rush, day living history program aboard *Balclutha*, takes place in 1849.

Summer Programming: June 25 to August 3:

Maritime Summer Camp: Week-long summer camps including rowing and sailing dinghies, marine biology, a beach day, open Bay sailing, and more.

Overnight Encampment on a Tall Ship: economical, streamlined overnight program aboard *Balclutha*.

SFSU Dept. of Recreation, Parks & Tourism (Lake Merced, SF)

Patrick Tierney, www.recdept.sfsu.edu/sailing

Summer Youth Sailing Camps, Paddling Camps, and Sailing & Science Camps: ages 8-15. When: June 11-August 10, Monday-Friday. Paddling Camp 9 am-noon; Sailing Camp 1-4 pm; Sailing & Science Camp 9 am-4pm.

Boats: Optis, JY 15s, double kayaks, SUPs (boats, boards & PFDs provided).

Cost: Half-day week-long camps \$190-\$210; full-day week-long Science Camp \$385. Scholarships for low-income groups are available (no individual scholarships provided).

San Francisco YC (Belvedere)

Youth Office, (415) 435-9525, youth@sfyc.org, www.sfyc.org/youth

Summer Learn-to-Sail Program: ages 7-16.

When: 2-week half-day, part-day and full-day sessions, mid-June through mid-August,

Monday-Friday 9 am-3:30 pm. Boats: Optis, JYs, CFJs, J/24s (provided).

Race Teams: ages 8-18, all levels. When: All Year.

Boats: Optis, Lasers, C420s (privately owned).

High School Program: grades 9-12 from Marin Academy, Marin Catholic, Branson or Redwood High School. When: September-May, Wednesday-Thursday, after school. Pricing listed on website, subject to change.

Scholarships available through the Belvedere Cove Foundation.

Sea Scouts San Francisco (Aquatic Park)

Tamara Sokolov, (415) 517-3943, tamara.sokolov@gmail.com; Dennis Lindemann (415) 585-8825, www.corsair-viking.org

Year-Round Program: ages 13-18. When: Saturdays, 9:30 am-5 pm, Tuesdays, 5-8 pm, two-week, weekend and overnight cruises. Cost: \$60/semi-annually.

Spinnaker YC (San Leandro)

Defender

(510) 357-0601, www.spinnakeryachtclub.org; click on Jr. Sailing **Junior Program,** ages 10-18, able to swim. When: Monday-Friday, 9 am-1 pm. See website for details. Boats: DeWitt Dinghies (provided).

St. Francis YC (San Francisco)

Brent Harrill, (415) 820-3729, www.stfyc.com

Learn to Sail Program: ages 7-16.

When: Saturday mornings, September-November and March-May.

continued on page 26

WE ARE NOT

REQUIRED

TO COLLECT

SALES TAX ON

ORDERS SHIPPED

	Saturday	Sunday
April 2018		EASTER 1
→ indicates 2-day races. YRA events indicated in bold type. indicates full moon. SM TW Th FS 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Opti Harken Series #2, SFYC - Richardson Bay → J/Fest, StFYC - City → Mercury Series #2, EYC - Estuary Doublehanded Lightship, IYC - Ocean Singlehand/Doublehanded #3, SeqYC - SB TYC Don Wan Regatta, TYC - NB North Bay Series #1, VYC - NB El Toro Bullship Race, RYC - City Classic Boat Invitational Series #1, SYC	Opti Harken Series #2, SFYC – Richardson Bay J/Fest, StFYC – City Spring Series #3, SSC – Stockton Estuary Cup, EYC - Estuary
Weekday & Special Events April 1: April 19-22: Pacific Sail & Power Boat Show – Craneway Pavilion	Resin Regatta, SFYC - OC → Wheeler Regatta, BYC - OC/CB → Camellia Cup, FLYC - Folsom Lake → Small Boat Race #2, EYC - Estuary Summer #1, SeqYC - SB Round the Rocks, SSS - CB Commodore's Cup, BVBC - SB Commodore's Regatta, SCYC - Santa Cruz Interclub #1, IYC - SB	Resin Regatta, SFYC – OC Wheeler Regatta, BYC – OC/CB Camellia Cup, FLYC – Folsom Lake Baxter-Judson Series #2, PresYC – CB
& Marina Bay Yacht Harbor, Richmond April 22: Celebrate Earth Day on the liquid part. April 27-29: Newport to Ensenada Race, NOSA	BAYS PCISA Silver PCC's Regatta, EYC – Estuary → Big Dinghy, RYC – SH → Opening Day on the Strait, BenYC – Carquinez OYRA Lightship Race, YRA – Ocean Anniversary Cup, SFYC – Knox Intraclub Regatta, StFYC – City Double Handed Long Distance Race #2, SSC – Stockton Spring One Design #1, SCYC – Santa Cruz	BAYS PCISA Silver PCC's Regatta, EYC – Estuary Big Dinghy, RYC – SH Spring Series #4, SSC – Stockton OPENING DAY ON THE BAY
	Elvstrom Zellbach Regatta, StFYC – City → Great Vallejo Race, YRA/VYC – NB → Twin Island Race #1, SYC – Knox/Alcatraz	Elvstrom Zellbach Regatta, StFYC – City Great Vallejo Race, YRA/VYC – NB Spring Series #5, SSC – Stockton SCORE #1, SCYC – Santa Cruz



GREAT VALLEJO RACE All are Invited APRIL 28-29, 2018 Racers and

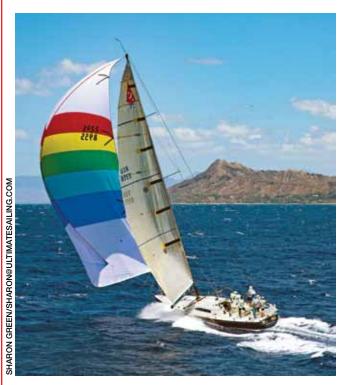
SAIL THE YRA SCORED SEASON OPENERS & COME TO THE PARTY!

Entertainers, Exhibits, and Sponsor Booths in the Afternoon Various Food Vendors will be Open 3pm to 8pm Saturday Live Band and Dance in the Main Hall - Saturday Evening More information will be at www.VYC.org





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Robin Sodaro 415.332.4117 rsodaro@ullmansails.com Synthia Petroka 510.205.9412 spetroka@ullmansails.com

Youth Sailing

continued from page 24

St. Francis YC (San Francisco) continued

Boats: Optimists, RS Teras, 420s (provided). **Cityfront Summer Sailing Camps:** ages 7-16.

When: 1-week sessions, Monday-Friday, 9 am-4 pm. Check website for dates.

Boats: Optis, RS Teras, C420s, windsurfers (provided).

Tinsley Island Summer Overnight Sailing Camps: ages 8-15. When: 1-week sessions, Monday-Friday. Check website for dates.

Boats: Optis, RS Teras, Bytes, Lasers, windsurfers, kayaks, paddle boards (provided).

Introduction to Racing Program: ages 9-16.

When: Sundays, September-November and March-May. Boats: Optimists and 420s (provided). Cost: See website.

Stockton Sailing Club

www.stocktonsc.org

Learn to Sail Program: ages 8-21 (24 if FT student). When: One-week classes, June-August. Boats: Optis and FJs (provided). Cost: Contact club.

Summer Sleepover Sail Camp: (with RYC & SCYC), www.sailcamp.org

When: July. Boats: El Toros, Optis (limited number of club boats available to rent).

Cost: Contact club(s). Scholarships available.

Treasure Island Sailing Center

Travis Lund, (415) 421-2225, www.tisailing.org

Youth Programs (Scholarships Available)

Harbor Seals (age 6): Entry-level, exploratory program focusing on water-safety and wind/sea awareness. Spring, Summer (Camp), Fall. Cost: \$350

Explore Sailing (ages 7-12): Entry-level, exploratory program instilling confidence on or near the water, building sailing skills and enhancing respect for a clean ocean. Spring, Fall. Cost: \$350, Summer Camp. Cost: \$350.

Beginner Youth (ages 7-12): Fun introduction to beginner-level sailing fundamentals through the excitement of small sailboats. Spring, Fall. Cost: \$350, Summer Camp. Cost: \$600

Intermediate Youth (ages 7-12): Continuation of small dinghy skills, introducing more subtle boat handling techniques and sailing conditions. Spring, Fall. Cost: \$350, Summer Camp. Cost: \$600.

Advanced Youth (ages 7-12): Introduction to racing and strategy for students with a strong understanding of advanced boat handling. Spring, Fall. Cost: \$350, Summer Camp. Cost: \$600. **Explore Teen** (ages 13-18): Exploratory class designed for teens to learn basic dinghy sailing skills and boat safety. Summer Camp. Cost: \$350.

Beginner Teen (ages 13-18): Further exposure to fundamental sailing skills, while heightening personal reliance and judgment on and off the water. Spring, Fall. Cost: \$350, Summer Camp. Cost: \$600.

Intermediate Teen (ages 13-18): Development of doublehanded small dinghy skills, focusing on collaboration, teamwork and proper boat handling. Spring, Fall. Cost: \$350, Summer Camp. Cost: \$600.

TISC Teen Learn to Race (ages 13-18): Strategy focused, emphasizing teamwork to tackle the complex components of racing in a doublehanded dinghy. Spring, Fall. Cost: \$350, Summer Camp. Cost: \$600.

Junior Big Boat I (ages 7-12): Developmentally appropriate introduction to keelboat sailing instilling communication and teamwork skills. Spring, Fall. Cost: \$350.

Junior Big Boat II (ages 13-18): Challenges novice and advanced students to learn or apply previous knowledge to big-boat sailing. Spring, Fall. Cost: \$350.

Junior Leadership Program Level I (ages 15-18): Leadership pathway for our oldest junior sailors to build instructor experience and continuing personal sailing skills. Summer Camp. Cost: \$300.

Sequoia YC (Redwood City)

Office, (650) 361-9472, www.sequoiayc.org/jr_sailing **Beginner and Intermediate Sailing,** ages 8+. Boats: El Toros. **Advanced Sailing,** ages 12+. Boats: Lasers.

Where: Redwood Creek. When: Saturdays.

Winter/Spring Session starts February 3.

Fall Session starts September 8.

Cost: \$230, scholarships available.

South Beach YC (San Francisco)

www.southbeachyc.org

Junior Program: ages 8-17, able to swim. 1-week sessions,

June-August, M-F, 9 am-4 pm.

Boats: RS Teras, Laser 4.7s, FJs (boats provided). Cost: \$360/week; after 4/15, cost will increase \$20. Scholarships available for kids in need.

Sunday Saturday May 2018 J Stop Regatta, StFYC - City → J Stop Regatta, StFYC - City Behrens Regatta, TYC - NB Championship Series, CYC - Knox North Bay Series #2, VYC - NB Spring Series #6, SSC - Stockton Singlehanded Race, SSC - Stockton → indicates 2-day races. Intraclub #1, RYC - CB YRA events indicated in bold type. indicates full moon. 6 Nacra 15 Clinic, StFYC - City → Nacra 15 Clinic, StFYC - City 5 12 2 Baxter-Judson Series #3, PresYC - CB 10 Mercury Series #3, EYC - Estuary 11 Interclub #2, IYC - SB SCORE #2, SCYC - Santa Cruz 19 13 15 16 17 18 20 23 OYRA Duxship, YRA - Ocean Spring One Design #2, SCYC - Santa Cruz CBRA Invitational #1, SFYC - OC MOTHER'S DAY Flight of the Bulls, El Toro Class - Foster City Weekday & Special Events 13 May 19-28: · Made in Santa Cruz Race Week, SCYC - Santa Cruz Elite Keel Regatta, SFYC - OC Elite Keel Regatta, SFYC - OC → USMRC Area Qualifier, StFYC - City USMRC Area Qualifier, StFYC - City → May 28: · Memorial Day Small Boat Racesw #3, EYC - Estuary Spring Series #7, SSC - Stockton • Coastal Cup, MPYC/SB - Ocean May 31: Summer #2, SeqYC - SB Singlehanded Farallones, SSS - Ocean Summer Series #1, YRA - CB Long Distance Race #2, SSC - Stockton 19 20 C420 Clinic, StFYC - City Memorial Regatta, WSC - Whiskeytown Lake C420 Clinic, StFYC - City → Memorial Regatta, WSC - Whiskeytown Lake → Master Mariners Regatta, SYC - City Spinnaker Cup, SFYC - Ocean



Delta Ditch Run



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June 2, 2018



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2018 Sunrise and Sunset

As observed from sea level at the Golden Gate Bridge

Pacific Standard Time Corrected for Daylight Saving Time

	RISE	SET		RISE	SET
JANUARY			JULY		
	7:25	17:02	5	5:53	20:34
5	7:25	17:05		5:56	
10			_	5:59	
15				6:03	
20				6:07	
25				6:11	
30			30	0.11	20.20
30	/ . 14	17.31	AUGUST		
FEBRUARY				6:16	00.10
	7:09	17.07	-		
				6:21	
10				6:25	
15				6:29	
20			-	6:33	
25	6:46	18:00	30	6:38	19:40
MARCH	0.05	40.07	SEPTEMBE		
	6:35			6:43	
10				6:47	
15			-	6:51	
20				6:55	
25	7:05	19:26	25	7:00	19:01
30	6:57	19:30	30	7:04	18:54
ADDU			0070050		
APRIL	0.40	40.00	OCTOBER	7.00	40.40
	6:48			7:08	
10				7:13	
15				7:18	
20				7:23	
25				7:27	
30	6:14	19:59	30	7:33	18:13
MAY			NOVEMBER	.	
	6:09	20·03		• 6:39	17:06
10				6:44	
15				6:50	
20				6:55	
25 30				7:00	
30	5:50	20:24	30	7:05	16:51
JUNE			DECEMBER	₹	
5	5:48	20:28	5	7:10	16:50
10			10	7:14	16:50
15	5:47	20:33		7:17	
20				7:20	
25				7:23	
30				7:24	
- 2			1 00	<u></u>	

This table may be used in the vicinity of the stated location with less than a 2-minute error.

Latitude 38

2018 Sailing Calendar and YRA Master Schedule

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	Saturday	Sunday
June 2018 → indicates 2-day races. YRA events indicated in bold type. indicates full moon.	X-Bay Regatta, SBYC/CYC – Knox/CB Mercury Series #4,EYC – Estuary Moonlight Marathon #1, SeqYC – SB North Bay Series #3 - Luna Race, VYC – NB Delta Ditch Run, RYC to SSC CBRA Series #2, GGYC – City Champagne Cup, StFYC – City	Tri-Island Race #1, BYC – Berkeley Circle/Alcatraz
S M T W Th F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	InterClub #3, EYC – SB/Estuary YRA OYRA Farallones Race, SFYC – Ocean Great Schooner Regatta, SFYC – Knox/CB Laser Masters Series, SSC – Stockton International 14 National, RYC – SH Classic Boat Invitational, SYC – Knox	Baxter-Judson Series #4, PresYC – CB
Weekday & Special Events	ourio irritational, or ro	Twentysomething Regatta, CYC – OC June Invitational, SFYC – OC
June 15-17: • Opti Heavy Weather, StFYC – City	South Tower Race, SSC – Stockton → YRA Summer Series #2, – RYC – SH	South Tower Race, SSC – Stockton
 El Toro Senior North Americans, Clear Lake 	Spring One Design #3, SCYC – Santa Cruz	17
June 16: • Lipton Cup Series, RYC	Benicia Go Sailing Day, BenYC - Carquinez	SCORE #3, SCYC – Santa Cruz
<u>June 21:</u> • Summer Solstice – Northern Hemisphere	CHISPA Regatta, EYC – Estuary Sailstice, EYC – Estuary	·
June 22-24: • Long Beach Race Week, LBYC – Long Beach	Sailstice Small Boat Race #4, EYC – Estuary OYRA Half Moon Bay, YRA/HMBYC – Ocean SSS Singlehanded TransPac, CYC – Ocean	
Trans-Tahoe Regatta, TahoeYC –	Rear Commodore Race, SYC – Knox to SP Bay H.O. Lind 1-3,TYC – NB	
Lake Tahoe June 23-24: • Summer Sailstice	Race of Champions, SSC – Stockton	
June 22-24: • Woodies Invitational, StFYC – City	11111aClub #2, NTC - 3F1 23	24
June 24: • Master Mariners Wooden Boat Show, CYC	Silver Eagle, IYC – CB Westpoint Regatta, YRA/SeqYC – SB	
June 29: • El Toro Jr North American - SSC	30	



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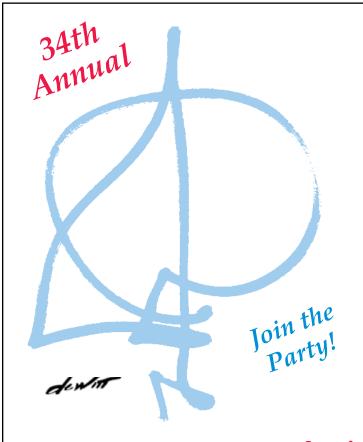




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July 2018	Saturday	Sunday
→ indicates 2-day races. YRA events indicated in bold type.		Fannette Island Race, LTWYC – South Lake Tahoe
indicates full moon. S M T W Th F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	Hart Nunes Regatta, SFYC – Raccoon Strait → Championship Series, CYC – Knox Battle of the Capes, BenYC – Carquinez North Bay Series #4 Brothers Race, VYC – NB Jack and Jill Race, SSC – Stockton	Hart Nunes Regatta, SFYC – Raccoon Strait
Weekday & Special Events July 4: • Independence Day • Fourth of July Regatta (Jr), EYC – Estuary • Independence Cup, SFYC – Knox • Brothers & Sisters Race, TYC – NB	BAYS Svendsen's Summer Splash, EYC – Estuary → Kiteboarding Classic/UN Challenge, StFYC – City → Interclub #3, SBYC – SB Twin Island Race #2, SYC – Knox/Alcatraz Fox Hat Race, TYC – CB/NB YRA Summer Series #3, YRA – CB Santana 22 Team Racing, SCYC – Santa Cruz	BAYS Svendsen's Summer Splash, EYC – Estuary Kiteboarding SF Classic/UN Challenge, StFYC – City Tri-Island Race #2, BYC – OC/TI Howard Stevens Race, LTWYC – South Lake Tahoe Baxter-Judson Series #5, PresYC – CB
Ciccerello Perpetual #1, VYC – NB July 20-22: Laser Masters NAs, StFYC –City	SC Multihull Regatta, SCYC – Santa Cruz → J105 Fleet 1 Invitational Regatta, SYC – West Alcatraz/Knox → Small Boat Race #5, EYC – Estuary OYRA Jr Waterhouse, YRA – Ocean Midnight Moonlight Maritime Marathon, SFYC – Raccoon to Carquinez & Return Plastic Classic, BVBC – South Bay SF Side	SC Multihull Regatta, SCYC – Santa Cruz J105 Fleet 1 Invitational Regatta SYC West Alcatraz/Knox Doublehanded Race, LTWYC – South Lake Tahoe
	YRA Encinal Regatta, EYC/YRA – CB/Bonita → Mitchell Ross Regatta, SFYC – Knox	YRA Encinal Regatta, EYC/YRA - CB/Bonita
	28	29



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Saturday August 2018 Summer Keel/Easom Founders Regatta, SFYC - OC → El Toro Pinecrest Worlds. Pinecrest Lake -> OYRA Wild Card, YRA - Ocean → indicates 2-day races. Kiteboarding SF Bay Challenge, StFYC - City YRA events indicated in bold type. Moseley Regatta, TYC - NB NB Series #5 Angel Island, VYC - NB indicates full moon. Single/Doublehanded #4, SeqYC BAYS #4, SFYC - Richardson Bay → Benicia/Vallejo Regatta, BenYC - Carquinez 12 19 15 16 18 Summer #3, SeqYC - SB 20 27 21 28 22 29 23 24 Summer Series #4, YRA - CB Interclub #4, BAMA - SB Weekday & Special Events August 2-5: • Hydrofoil Pro Tour, StFYC • 505 NAs. StFYC - City August 8-12: OYRA Drakes Bay, YRA/CYC - Ocean → • International 14 Worlds, RYC - SH August 12-26: Swiftsure Regatta, StFYC - City → August 17: • Aldo Alessio Perpetual, StFYC -Small Boat Races #6, EYC - Estuary Wosser Cup, SFYC - Knox J/70 & Melges 24 Cal Cup - City **August 17-19** Classic Boat Invitational #2, SYC - Alcatraz/Knox US Women's Match Race Champi-August 23-26: "Round the Rock, BVBC - SB onship, StFYC - City Fall One Design #1, SCYC - Santa Cruz Windjammers, StFYC/SCYC – Aug. 31: Single/Doublehanded # 4, SeqYC - SB SF to Santa Cruz 18

- South Lake Tahoe
CBRA Series #3, CYC - Knox

BAYS #4, SFYC - Richardson Bay
Mid Summer Madness, LTWYC - South Lake Tahoe
PreBaxter-Judson Series #6, PresYC - CB

OYRA Drakes Bay, YRA/CYC - Ocean
Swiftsure Regatta, StFYC - City
Tri-Island Race #3, BYC - OC/Angel Island
Gracie & George Regatta, EYC - SB/Estuary
Skip the Skipper Race, LTWYC South Lake Tahoe
Big Brothers Big Sisters Regatta, SCYC - Santa
Cruz

Fall SCORE #1, SCYC - Santa Cruz

Sunday

Summer Keel/Easom Founders Regatta, SFYC - OC

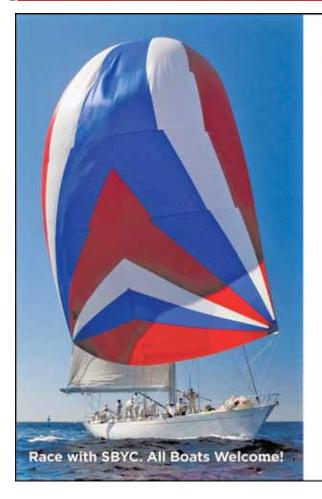
El Toro Pinecrest Worlds, Pinecrest Lake Commodores Cup Race, LTWYC

CDI

CBRA Series #4, BYC - OC Women Skippers Regatta, SYC - Knox H.O. Lind Regatta, TYC - NB Moonlight Marathon #2, SeqYC - SB

25

26



South Beach Yacht Club 2018 Racing Season



Jazz Cup: 9/1

Red Bra Regatta: 10/20

Friday Night Series: April 20 thru August 24

MidWinters Races: 1/20, 2/17, 3/17, 11/16, 12/15

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South Bay Championship Hannig Cup Moonlight Marathon Barth Race

Redwood Cup Series
Winter Series
Summer Series
Single/Doublehanded Series
Wednesday Night
Sunset Series

September 2018	indicates full moon. → indicates 2-day races. YRA events indicated in	S M T W Th F S 2 3 4 5 6 7 8 9 10 11 12 13 14 15 in bold type. 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Sept. 3: • Labor Day – Take a worker sailing Sept. 5: • Latitude 38 Fall Crew List Party	Jazz Cup, SBYC – CB to Benicia Summer #4, SeqYC – SB Olympic Development Clinic, StFYC – City	Olympic Development Clinic, StFYC – City
at the Spaulding Marine Center Sept. 13-16: Sept. 15-16: Sept. 22-23: Sept. 23: Sept. 28-30: at the Spaulding Marine Center Rolex Big Boat Series, StFYC – City Bart's Bash SF Bay, GGYC – City Women's Sailing Seminar and Regatta IYC – Estuary Autumnal Equinox Pac52 Cup, StFYC – City	Millimeter Nationals #1, EYC – Estuary → Perpetual Race, LTWYC – South Lake Tahoe → Laser Fleet Championship, TahoeYC – Lake Tahoe → Melges 24 Nationals, SFYC → Championship Series, CYC – Knox Singlehand/Doublehanded #5/Commodore's Cup, SeqYC – SB Classic Boat Invitational #3, SYC – Alcatraz/Knox Tornberg Regatta, TYC – NB North Bay Series #6, VYC – NB Fall Race #1, SSC – Stockton Intraclub #3, RYC – SH Interclub #6, OYC – SB	Millimeter Nationals #2, EYC – Estuary Perpetual Race, LTWYC – South Lake Tahoe Laser Fleet Championship, TahoeYC – Lake Tahoe Melges 24 Nationals, SFYC Commodore's Cup, EYC – TBD Governor's Cup Series #1, FLYC – Folsom Lake Melges 24 Nationals, SFYC – Women's Skipper Race, PresYC – CB
	Interclub #6, OYC – SB Fall Equinox Invitational Small Boat Race #7, EYC – Estuary SSS Half Moon Bay – Ocean Fall One Design #2, SCYC – Santa Cruz Summer #5 / SB Championship / Corkscrew Slough, SeqYC – SB	Governor's Cup Series #2, FLYC – Folsom Lake Late Summer Race, LTWYC – South Lake Tahoe
553 580 083	Totally Dinghy, RYC − SH → OYRA Wild Card, YRA − Ocean Interclub Challenge Barth Race, SeqYC − SB Auxilliary Cup, SFYC − Knox Joe Logan, StFYC − City Shorthanded Races, TYC − NB Jack and Jill Regatta, SCYC	Totally Dinghy, RYC – SH Governor's Cup Series #3, FLYC – Folsom Lake Fannette Island Race, LTWYC – South Lake Tahoe Calvin Paige, StFYC – City
	YRA Corinthian Race, YRA/CYC - CB → Express 37 Nationals, BYC - OC → Champions Race, BenYC - Carquinez CBRA Series #5, StFYC - City	YRA Corinthian Race, YRA/CYC - CB Express 37 Nationals, BYC - OC Governor's Cup Series #4, FLYC - Folsom Lake

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Saturday Sunday October 2018 Express 27 Nationals, SFYC → Express 27 Nationals, SFYC Sport Fest Invitational & Multihull Regatta, Sport Fest Invitational & Multihull Regatta, RYC - OC → RYC - OC Tiny Robbins Midwinter Series #1, VYC - NB Chowder Series #1, BYC - OC Fall Race #2, SSC - Stockton indicates 2-day races. YRA events indicated in bold type. indicates full moon. Fall Classic, SFYC - Knox Fall Classic, SFYC - Knox → SF Cup / Catalina 34 Fleet, SBYC - SB -> SF Cup / Catalina 34 Fleet, SBYC - SB Twin Island Race #3. SYC - Knox Chowder Series #2. BYC - OC Joan Storer Regatta, TYC - NB El Toro Stampede, RYC - Potrero Ch. 15 22 16 23 17 19 18 Oktoberfest, OYC - Treasure Island/Estuary Intraclub #4, RYC - SH Santana 22 Team Racing, SCYC - Santa Cruz Corkscrew Slough Regatta, SeqYC - SB 13 14 Weekday & Special Events Leukemia Cup, SFYC - Knox -Leukemia Cup, SFYC - City or Alcatraz October 1-8: Championship Series, CYC - Knox Chowder Series #3, BYC - OC • Fleet Week Vallejo 2, SSS - CB Vallejo 1, SSS - CB October 8: · Columbus Day Red Bra Regatta, SBYC - SB October 9-13: • Nation's Cup Match Race, StFYC -Jessica Cup, StFYC - City Perkins Challenge, StFYC - City Fall One Design #3, SCYC - Santa Cruz <u>October 29:</u> • Baja Ha-Ha starts, SD to Cabo 20 October 31: • Halloween: Go sailing in costume! Fall Dinghy, StFYC - City → Fall Dinghy, StFYC - City Great Pumpkin, RYC - OC Great Pumpkin, RYC - OC → Round the Island Regatta, SFYC -Chowder Series #4, BYC - OC BelvedereCove/TI/SH Red Rock Regatta, TYC - NB



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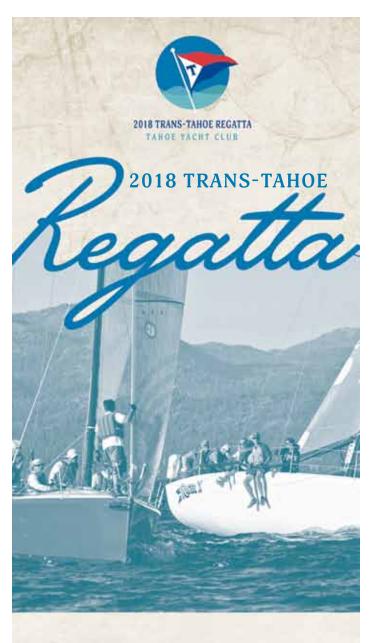


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November 2018	 indicates full moon. → indicates 2-day races. YRA events indicated in the indicates are indicated in the indicates in the indicates	S M T W Th F S 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Weekday & Special Events	Saturday	Sunday
November 3: November 11: November 13: November 13: November 22: November 23: November 24: November 25: November 26: November 26: November 27: November 28: Nov	Cal 20 Round Robin, CYC - Raccoon Strait → BAYS HS NorCal Regatta, EYC - Estuary → Tiny Robbins Midwinter Series #2, VYC - NB Frostbite Series #1, BenYC - Carquinez Jack Frost Midwinter #1, EYC - YRA 10 Midwinter #1, GGYC - City Winter #1, SeqYC - SB Fall Race #3, SSC - Stockton	Cal 20 Round Robin, CYC – Raccoon Strait BAYS HS NorCal Regatta, EYC – Estuary Chowder Series #5, BYC – OC Jill & Jack + 1, IYC – Estuary J/22 Fall Series #1, StFYC – City Midwinter #1, SYC – Knox Amazing Grace Cheney Cup, RYC – SH Laser Short Course, RYC – SH
wild fulkey hade, 110 - NB	3	DAYLIGHT SAVING TIME ENDS 4
	Midwinter #1, BYC – OC → RegattaPRO Winter One-Design #1, SYC – OC/SH Santana 22 Team Racing, SCYC, Santa Cruz	Midwinter #2, BYC - OC Midwinter Island Days #1, IYC - Estuary J/22 Fall Series #2, StFYC - City
93	10	11
	Fall Farallones, BAMA – Ocean Redwood Cup #1, SeqYC – SB Midwinter #1, SCYC – Santa Cruz	Chowder Series #6, BYC – OC Commodore's Challenge, IYC – Estuary J/22 Fall Series #3, StFYC – City
W CLE ENGL ON	17	18
	24	Chowder Series #7, BYC – OC J/22 Fall Series #4, StFYC – City



2018 RACE SCHEDULE

We offer a comprehensive program for both one-design and PHRF fleets off the Marin Headlands and around San Francisco Bay. Our bar and galley are open for after-race bragging or analysis!

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- SYC Chili Midwinter Series, the first Sunday of the month; January 7, February 4, March 4, November 4, December 2.
- SYC / RegattaPRO Invitational, the second Saturday of the month, January 13, February 10, November 10, December.
 Keep your crew's skills sharp through the winter. Divisions for J120, J111, J105, J88, J70, J24, Express 27, Melges 24, Moore 24.
- Jaws Regatta, March 24. A pursuit race that starts and finishes
 off the club deck with a 'Bay Tour' course. Includes a predicted
 log division for powerboats.
- Classic Boat Invitational Series, three regattas in Spring, Summer and Fall with 3 races each day. Bears, Birds, Folkboats, Knarrs and more!
- Twin Island Series, April 28, July 14, October 13. Choose your own route around Alcatraz and Angel Island.
- Spring Sunset Series, May 8, May 22, June 5, June 19. Racing and BBQ on a Tuesday evening to shake off those Monday blues!
- Rear Commodore's Race, June 23. Downwind to Vallejo Yacht Club followed by dinner and a party to round off the day.
- J105 Fleet 1 Regatta, July 21 22.
- Summer Sunset Series, July 24, August 7, August 21. Enjoy long summer evenings with racing and a BBQ after.
- Women Skippers Regatta, August 25. This day-long event starts with a skippers' breakfast and briefing, PHRF fleet racing and post-race party with additional trophies for all-women crews.



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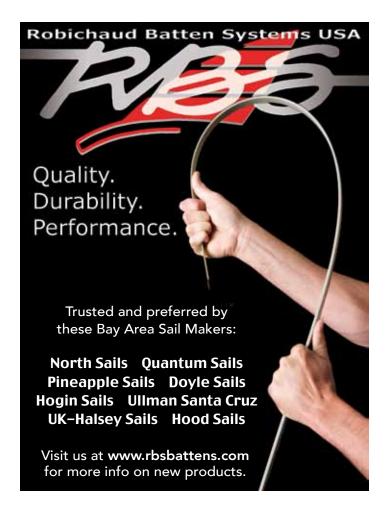
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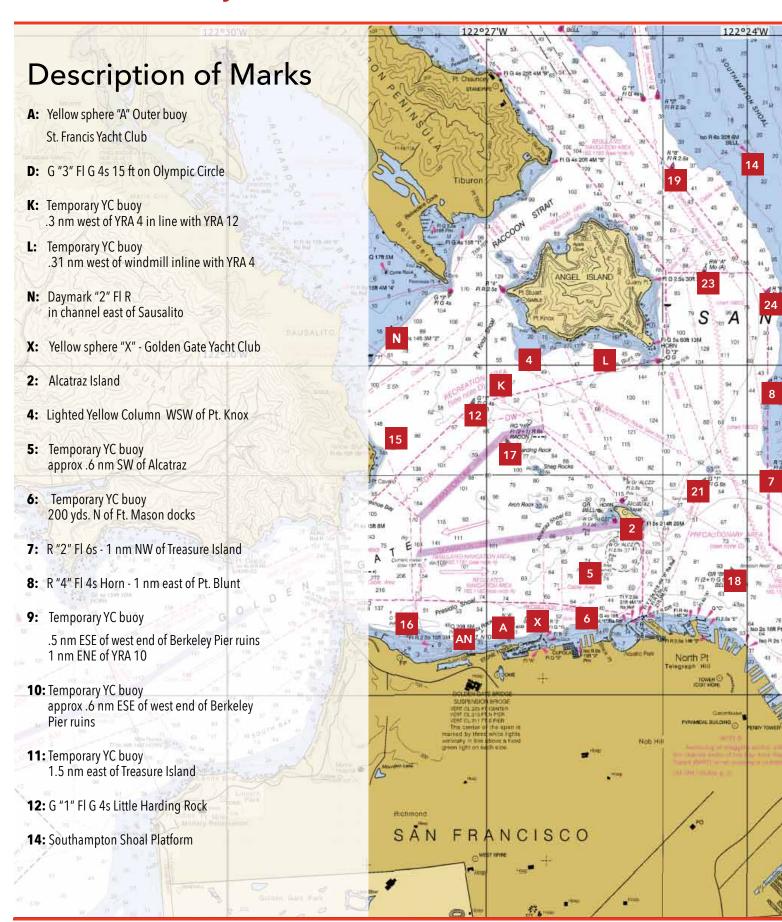
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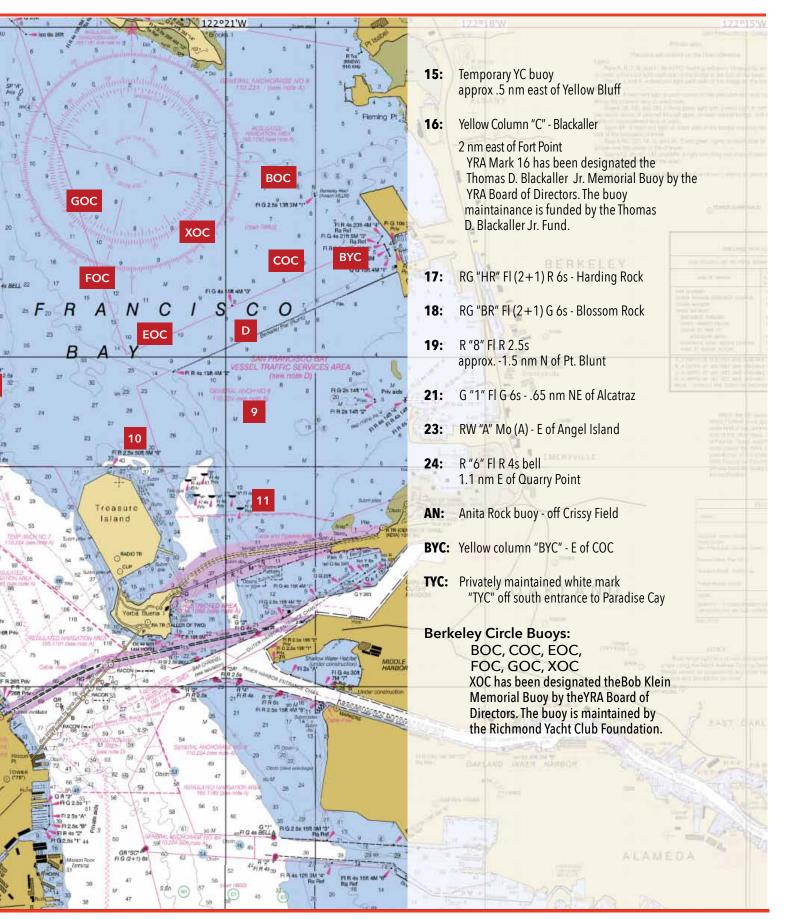
December 2018	 indicates full moon. → indicates 2-day races. YRA events indicated in 	S M T W Th F S 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Weekday & Special Events	Saturday	Sunday
December: • Happy Holidays! Check the Calendar in the Nov. or Dec. issue of Latitude 3A for lighted boat parades near you. December 2: • Hanukkah begins at sundown December 21: • Winter Solstice	Frostbite Series #2, BenYC – Carquinez Jack Frost Midwinter #2, EYC – YRA 10 Midwinter #2, GGYC – City Winter #2, SeqYC – SB Fall Race #4, SSC – Stockton	Chowder Series #8, BYC – OC Midwinter #2, SYC – Knox Midwinter #1, RYC – SH
December 25: • Christmas Day December 31: • New Year's Eve	Midwinter #3, BYC – OC Redwood Cup #2, SeqYC – SB RegattaPRO Winter One-Design #2, SYC – OC/ SH Shoal	Midwinter #4, BYC - OC Midwinter Island Days #2, IYC - Estuary
	Santana 22 Team Racing, SCYC – Santa Cruz	9
	Island Fever #2, SBYC - SB Midwinter #2, SCYC - Santa Cruz	Chowder Series #9, BYC – OC
	15	16
		Chowder Series #10, BYC - OC
	22	23
		Chowder Series #11, BYC – OC
	29	30



YRA Central Bay Marks



YRA Central Bay Marks



Definitions for YRA Racing Areas

The following racing areas have been defined by the YRA for the purposes of describing the general geographical location and the marks that may be used in a YRA race. Please refer to the individual Sailing Instructions for each YRA race for the exact courses. Temporary marks may be used instead of, or in conjunction with, the described marks in any of these YRA Racing Areas. Sailing Instructions will be available on the YRA website at www.yra.org approximately one week prior to the start of a YRA race.

Berkeley Circle (OC) Racing Area

See pages 42-43. Includes Marks BOC, COC, DOC, EOC, FOC, GOC, XOC, 8, 12, 15, 17.

Cityfront Racing Area

See pages 42-43. Includes Marks A, X, 6, 16, 17, 18, 21.

Knox Racing Area

See pages 42-43. Includes Marks K, L, N, 4, 12, 15, 21, 23.

North Bay (NB) Racing Area

See page 46. Includes Marks CM2, NG7, NR12, NR14, TYC, 14.

South Bay (SB) Alameda Side Racing Area

See page 47.

Races held in this sailing area will use temporary marks in the vicinity of NAS2.

South Bay (SB) SF Side Racing Area

See page 47.

Includes Marks AS1, NAS2, W1, XS1, 31, 34, 37.

Southampton Shoal (SH) Racing Area

See pages 42-43. Includes Marks N, 7, 12, 14, 19, 21.

Treasure Island (TI) Racing Area

See pages 42-43. Includes Marks EOC, 2, 7, 9, 10, 17, 18, 21.





Saturday, May 26

View and board classic sailing vessels, meet their skippers and learn the yachts' unique history. Show proceeds to go to Master Mariners Benevolent 501(c)3 Foundation. The Foundation provides scholarships for youth sailing, wooden boat building and maritime education. Also provides for the preservation of SF Bay Classic yachts. MMBF is dedicated to preserving the continuity of traditional yachting on San Francisco Bay.

The Master Mariners Benevolent Association is dedicated to fostering participation in yachting and the preservation of classic and traditional sailing craft. During the Boat Show, the Corinthian Yacht Club outdoor bar and grill is open for lunch, there is model boat building for kids. Children under 12 free when accompanied by an adult.

Master Mariners Benevolent Association • www.mastermariners.org





JAZZ CUP

A 26 mile downwind race from SF to Benicia. Open to all. Enjoy warm weather and great wind.

> Friday, August 31 at South Beach Yacht Club

Jazz Cup t-shirts & Race burgees for sale!

Raft up and enjoy the Pre-Regatta BBQ!

RACE DAY

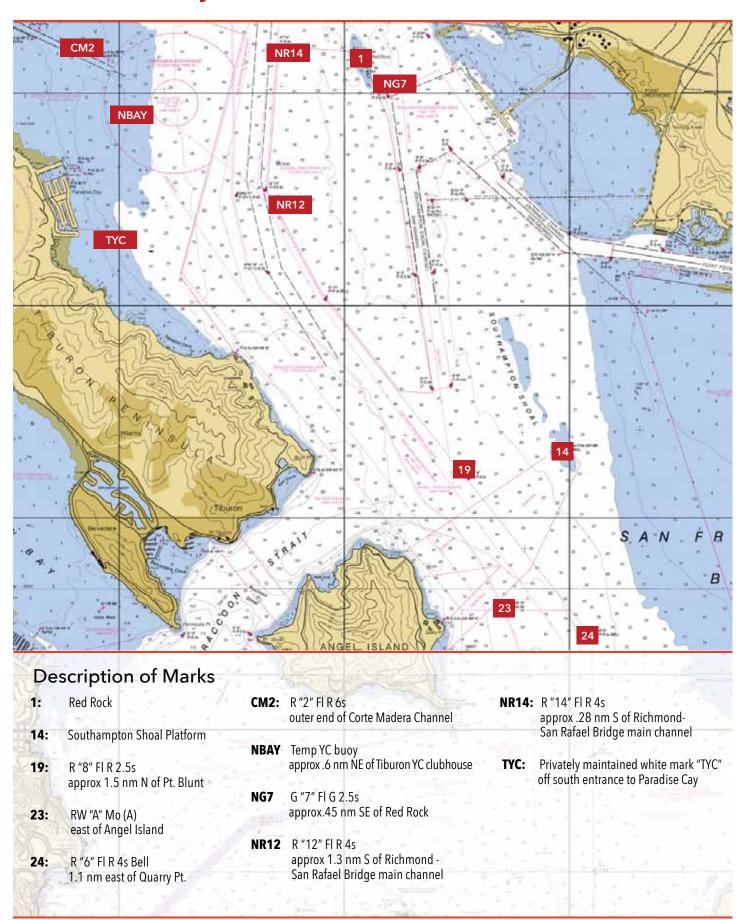
Saturday, September 1 SBYC to BYC

After-party in the lovely, warm Benicia Harbor & Yacht Club.

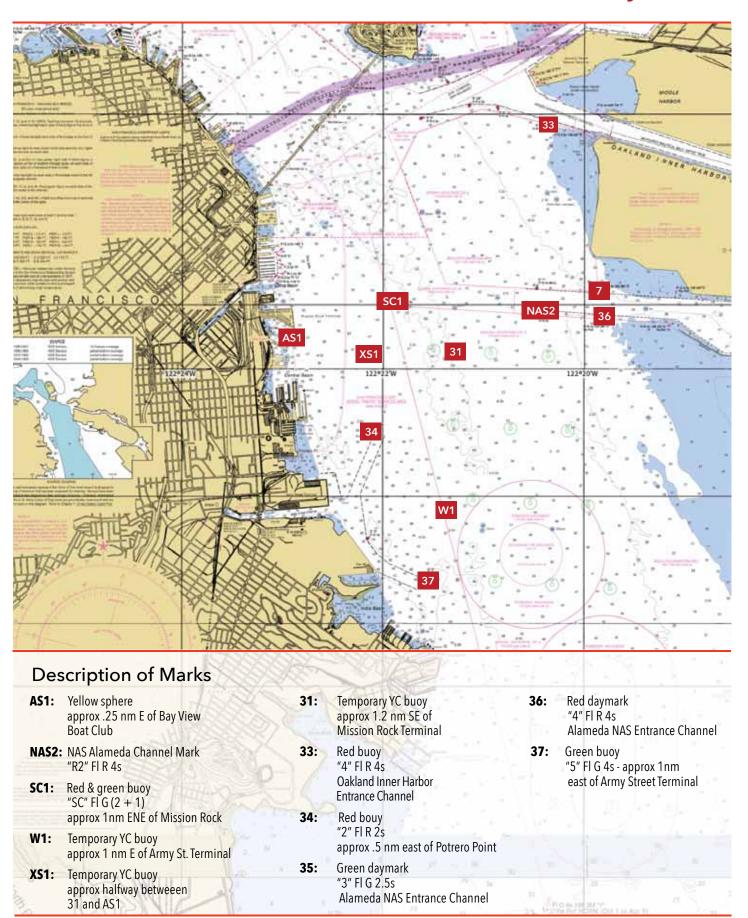
Raft up for the Live Jazz and Awards!

register: southbeachyc.org contact: rearcommodore@southbeachyachtclub.org

YRA North Bay Marks



YRA South Bay Marks



San Francisco Bay

These current charts show direction and speed of the tidal current for each hour of current at the San Francisco Bay entrance. The charts depict the flow of tidal currents under normal weather conditions. Strong winds and freshets, however, bring about non-tidal currents which may modify considerably the speeds and directions shown in the charts.

USE OF CHARTS

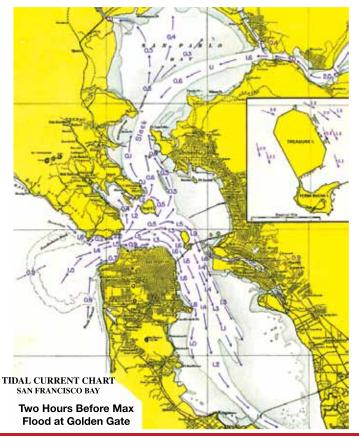
The chart to be used for any specific time is determined by obtaining the difference between the desired time and the time of the nearest Maximum Flood or Maximum Ebb for the Golden Gate. The chart with the title that agrees most nearly with this difference is the one to be used.

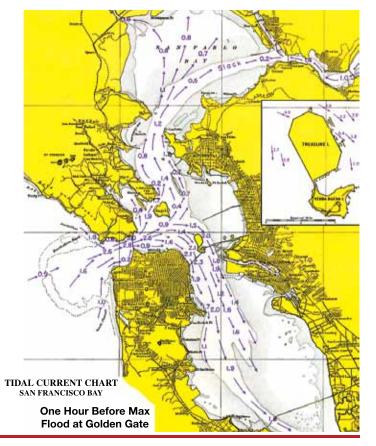
The numbers before or after the arrows indicate the 'tropic speed' of the current in knots. To determine the actual speed of the current for a particular day and hour, this tropic speed is multiplied by the factor given in the table to the right, 'Factors for Correcting Speeds'. To find the correct 'predicted speed' as listed in the table, see 'Weekend Currents' on pages 54 and 55.

The charts on this page and those that follow are from the National Ocean Service, National Oceanic and Atmospheric Administration of the U.S. Department of Commerce.

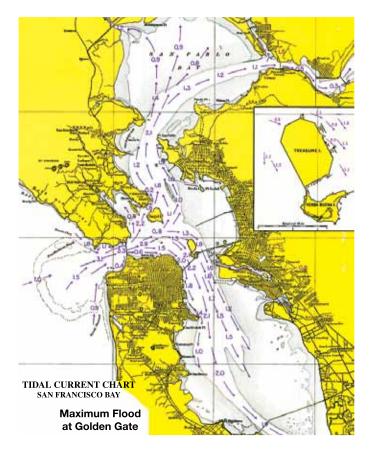
FACTORS FOR CORRECTING SPEEDS

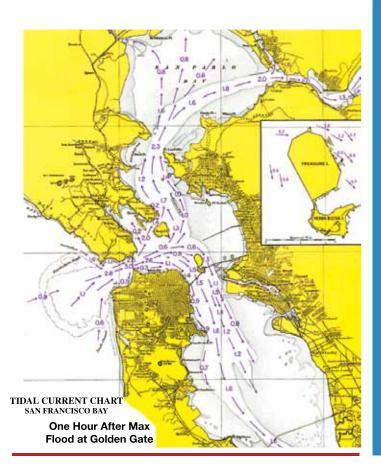
MAX	IMUM FLOOD		N	1AXIMUM EBB	
Predicted sp	eed (knots)	Factor	Predicted Sp	oeed (knots)	Factor
0.5-0.8,	multiply by	0.2	0.7-1.1,	multiply by	0.2
0.9-1.1,	multiply by	0.3	1.2-1.5,	multiply by	0.3
1.2-1.4,	multiply by	0.4	1.6-2.0,	multiply by	0.4
1.5-1.8,	multiply by	0.5	2.1-2.4,	multiply by	0.5
1.9-2.1,	multiply by	0.6	2.5-2.9,	multiply by	0.6
2.2-2.4,	multiply by	0.7	3.0-3.3,	multiply by	0.7
2.5-2.8,	multiply by	0.8	3.4-3.8,	multiply by	0.8
2.9-3.1,	multiply by	0.9	3.9-4.2,	multiply by	0.9
3.2-3.4,	multiply by	1.0	4.3-4.7,	multiply by	1.0
3.5-3.7,	multiply by	1.1	4.8-5.1,	multiply by	1.1
3.8-4.1,	multiply by	1.2	5.2-5.6,	multiply by	1.2
4.2-4.4,	multiply by	1.3	5.7-6.0,	multiply by	1.3
4.5-4.7,	multiply by	1.4	6.1-6.5,	multiply by	1.4
4.8-5.1,	multiply by	1.5	6.6-6.9,	multiply by	1.5





Tidal Current Charts





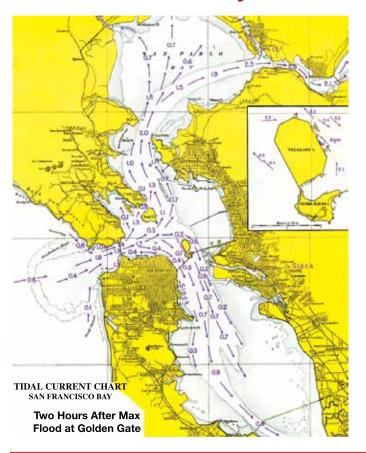


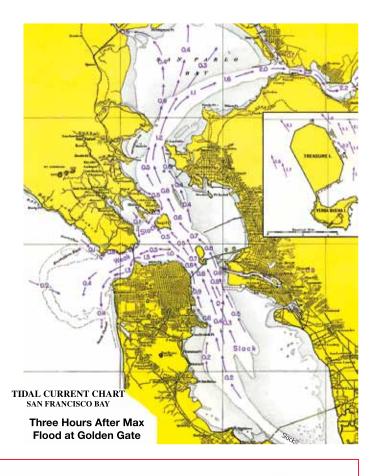
- Jack Frost Midwinters
- BAYS Winter Series
- Mercury Series
- Spring Equinox Invitational
- Spring Twilight Series
- Estuary Cup
- Small Boat Series
- BAYS PCISA Silver PCC's Regatta
- Coastal Cup California Offshore Race Week
- Interclub Series #5
- Summer SAILstice
- SAILstice Invitational
- Fourth of July Regatta
- Summer Twilight Series
- BAYS Svendsen's Summer Splash
- YRA 2nd Half Opener
- Gracie & George
- Millimeter Nationals
- Commodore's Cup
- Fall Equinox Invitational

And We Offer the best Year-Round Junior Sailing Program

Calendar of Events at www. encinal.org

San Francisco Bay





The Konocti Bay Sailing Club Presents

34th Annual

Konocti Cup

~~ Now Includes ~~ A Non-Spinnaker Division

Saturday, April 28

26 and 13 mile race for PHRF, one designs and multihulls

Sunday, April 29

Awards Brunch at Riviera Hills Restaurant One ticket included with registration Experience our classic regatta on beautiful Clear Lake surrounded by vineyard covered hills and magnificent views of 4300 foot Mt. Konocti





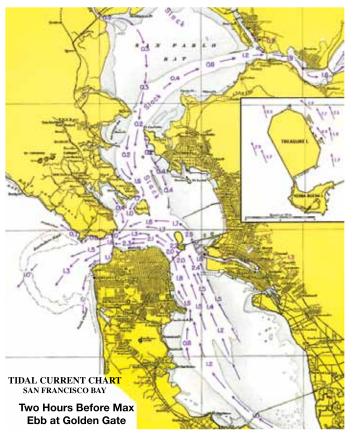


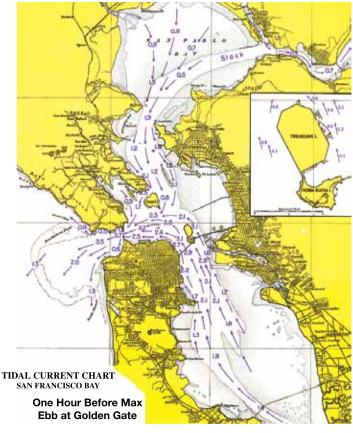
Register at www.kbsail.org

Bring the family.

Info at www.lakecounty.com

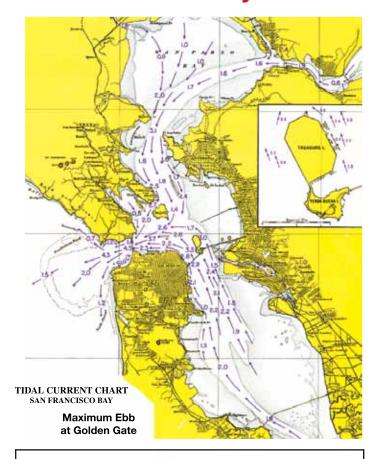
Tidal Current Charts

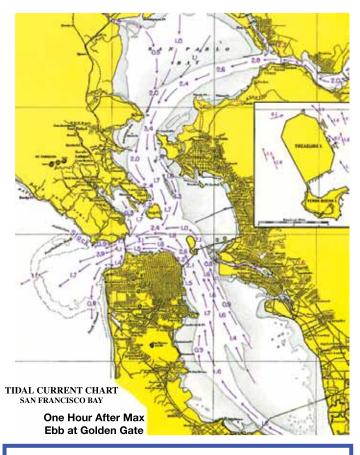






San Francisco Bay









July 21-22, 2018

One of the most fun races on the Bay since the 1950's!

Bring your family and friends, pack a picnic dinner, and enjoy this ~35 mile pursuit race from Pt. Stuart to the Carquinez Bridge and return to finish under the light of the moon in Racoon Strait.

> For more details and to register, visit www.SFYC.org > On the water > Racing > Schedule



Whiskeytown Sailing Club

54th Annual Memorial Weekend Regatta

May 26 & 27, 2018 Whiskeytown Lake, Redding CA.

All Fleets Are Welcome:

Dinghies * Centerboard * Multihull * Keel boats

"Good racing, fresh water, great food,

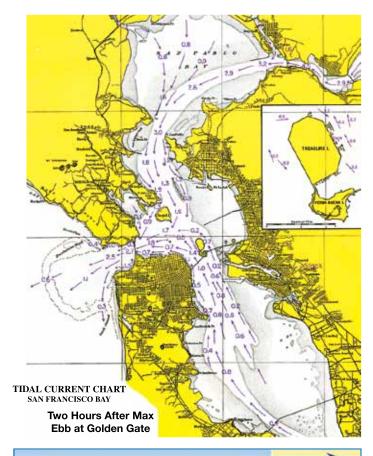
and lots of good people!"

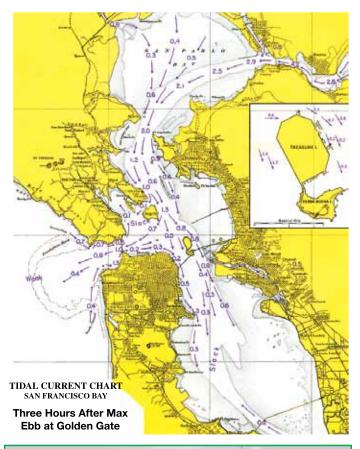
Entry or information: www.whiskeytownsailing.org (530) 539-4471

whiskeytownsailing@gmail.com

Membership info on WSC website.
WSC is a Member Club of SF-YRA
Discount for US Sailing Assoc. members

Tidal Current Charts







or call: 415-421-2225



	date/day	slack	max	slack	max		date/day	slack	max	slack	max		date/day	slack	max	slack	max
	1/01 Mon		0242/1.3E	0518	0848/3.5F		2/03 Sat	0312	0542/1.9E	0848	1154/3.1F		3/03 Sat	0148	0424/2.2E	0748	1048/3.5F
	1/06 Sat	1130	1418/3.1E 0106/3.7F	1848 0442	2154/3.7F 0706/1.5E		2/4 Sun	1454	1748/2.4E 0030/3.7F	2118 0354	0604/1.05		0/040	1354	1642/2.4E	2012	2318/3.8F
	1700000	1006	1306/2.6F	1600	1854/2.2E	I _	2/4 5un	0948	1248/2.7F	0354 1554	0624/1.8E 1842/2.0E		3/04 Sun	0224 1448	0506/2.2E 1736/2.1E	0836 2048	1142/3.2F
	4/70	1600	1854/2.2E	2236	0754/4.55	F		2200	12 10/2.71	1001	1012/2.02			1440	1730/2.12	2040	
J	1/7 Sun	1112	0154/3.4F 1406/2.2F	0530 1706	0754/1.5E 1954/1.8E	ΙE	2/10 Sat	0230	0542/2.2F	0900	1154/1.5E		3/10 Sat	0100	0412/1.8F	0724	1018/1.2E
A		2318	. 100/212		100 11 1102			1618	1930/2.6F	2248		M		1448	1812/2.4F	2136	2330/0.9E
N	1/13 Sat		0106/1.1E	0342	0700/2.7F	В	2/11 Sun		0048/1.0E	0324	0636/2.3F	Α	3/11 Sun	0312 1636	0612/1.8F 2000/2.6F	0924 2324	1218/1.3E
		1012 2354	1306/2.0E	1730	2036/2.9F	R		0942 2336	1248/1.7E	1700	2018/2.9F	R		1030	2000/2.0F	2324	
U	1/14 Sun		0154/1.1E	0430	0748/2.7F	U	2/17 Sat	0212	0436/1.6E	0724	1048/2.7F		3/17 Sat	0154	0424/1.9E	0730	1048/2.9F
A	4/000	1048	1348/2.1E	1812	2118/3.1F		2/17 Out	1336	1630/2.1E	2000	2330/3.2F	C		1348	1624/2.0E	1948	2312/3.4F
R	1/20Sat	0830	0006/3.0F 1154/2.3F	0342 1436	0600/1.2E 1730/2.0E	A	2/18 Sun	0236	0506/1.7E	0806	1130/2.6F	Н	3/18 Sun	0218	0448/2.1E	0806	1130/2.9F
		2106				R		1418	1712/1.9E	2030				1430	1706/1.9E	2018	2348/3.4F
Y	1/21 Sun	0010	0042/3.0F	0412	0636/1.3E	$ \mathbf{v} $	2/19 Mon	0040	0006/3.2F	0312	0536/1.8E		3/24 Sat	0018	0354/2.4F	0636	0918/2.0E
		0912 2136	1242/2.1F	1518	1818/1.8E	"		0842 2106	1218/2.4F	1506	1754/1.7E			1336	1718/2.6F	2106	2324/0.9E
	1/27Sat	0206	0548/2.9F	0848	1130/2.3E		2/24 Sat	0042	0424/2.6F	0718	1000/2.0E		3/25 Sun	0142	0500/2.3F	0748	1036/1.9E
	4 /000:	1600	1906/2.7F	2236	0040/045		2,24 000	1430	1748/2.5F	2124	2336/1.0E			1500	1824/2.9F	2212	
	1/28 Sun	0936	0048/1.1E 1224/2.6E	0312 1654	0642/3.1F 2000/3.2F		2/25 Sun	0200	0524/2.7F	0818	1112/2.2E		3/31 Sat	0130	0412/2.5E	0754	1048/3.6F
		2330						1536	1848/3.0F	2224				1400	1636/2.2E	2000	2306/3.9F
	date/day		max	slack	max		date/day	slack	max	slack	max		date/day	slack	max	slack	max
	date/day 4/01Sun	0206	0448/2.5E	0842	1136/3.4F		date/day 5/05Sat		0206/1.8F	0442	0736/1.6E		date/day 6/02Sat		0048/2.2F	0324	0624/2.0E
	-							1148 2354					-	1036 2224			
	-	0206	0448/2.5E	0842	1136/3.4F			1148 2354	0206/1.8F 1542/2.4F 0254/1.5F	0442 1948 0536	0736/1.6E 2142/0.8E 0830/1.4E		-	1036 2224	0048/2.2F 1412/2.8F 0136/1.8F	0324 1818 0406	0624/2.0E 2012/0.9E 0712/1.8E
	4/01Sun 4/07Sat	0206 1454 0024 1342	0448/2.5E 1730/2.0E 0336/1.6F 1736/2.3F	0842 2036 0630 2118	1136/3.4F 2342/3.6F 0906/1.2E 2312/0.8E		5/05 Sat	1148	0206/1.8F 1542/2.4F	0442 1948	0736/1.6E 2142/0.8E		6/02 Sat	1036	0048/2.2F 1412/2.8F	0324 1818	0624/2.0E 2012/0.9E
	4/01 Sun	0206 1454 0024 1342 0136	0448/2.5E 1730/2.0E 0336/1.6F 1736/2.3F 0436/1.4F	0842 2036 0630 2118 0730	1136/3.4F 2342/3.6F 0906/1.2E		5/05 Sat	1148 2354 1242	0206/1.8F 1542/2.4F 0254/1.5F 1642/2.4F 0200/2.0E	0442 1948 0536 2048	0736/1.6E 2142/0.8E 0830/1.4E 2236/0.8E 0842/2.3F		6/02 Sat	1036 2224 1112 2312	0048/2.2F 1412/2.8F 0136/1.8F 1500/2.6F 0042/1.8E	0324 1818 0406 1906	0624/2.0E 2012/0.9E 0712/1.8E 2100/0.8E
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A	4/01Sun 4/07Sat	0206 1454 0024 1342 0136	0448/2.5E 1730/2.0E 0336/1.6F 1736/2.3F 0436/1.4F	0842 2036 0630 2118 0730	1136/3.4F 2342/3.6F 0906/1.2E 2312/0.8E		5/05 Sat 5/06 Sun	1148 2354 1242	0206/1.8F 1542/2.4F 0254/1.5F 1642/2.4F 0200/2.0E	0442 1948 0536 2048	0736/1.6E 2142/0.8E 0830/1.4E 2236/0.8E 0842/2.3F	ı	6/02Sat 6/03Sun	1036 2224 1112 2312	0048/2.2F 1412/2.8F 0136/1.8F 1500/2.6F 0042/1.8E	0324 1818 0406 1906	0624/2.0E 2012/0.9E 0712/1.8E 2100/0.8E
A P	4/01Sun 4/07Sat 4/08Sun 4/14Sat	0206 1454 0024 1342 0136 1448 0036 1254	0448/2.5E 1730/2.0E 0336/1.6F 1736/2.3F 0436/1.4F 1830/2.4F 0312/2.1E 1524/1.7E	0842 2036 0630 2118 0730 2212 0636 1830	1136/3.4F 2342/3.6F 0906/1.2E 2312/0.8E 1024/1.1E 0948/2.7F 2200/3.4F	м	5/05 Sat 5/06 Sun 5/12 Sat	1148 2354 1242 1154	0206/1.8F 1542/2.4F 0254/1.5F 1642/2.4F 0200/2.0E 1418/1.4E	0442 1948 0536 2048 0536 1700	0736/1.6E 2142/0.8E 0830/1.4E 2236/0.8E 0842/2.3F 2048/3.2F	J	6/02Sat 6/03Sun 6/09Sat	1036 2224 1112 2312 1042 2236 1136	0048/2.2F 1412/2.8F 0136/1.8F 1500/2.6F 0042/1.8E 1300/1.1E	0324 1818 0406 1906 0430 1530	0624/2.0E 2012/0.9E 0712/1.8E 2100/0.8E 0724/1.8F 1924/3.0F
P	4/01Sun 4/07Sat 4/08Sun	0206 1454 0024 1342 0136 1448 0036 1254 0100	0448/2.5E 1730/2.0E 0336/1.6F 1736/2.3F 0436/1.4F 1830/2.4F 0312/2.1E 1524/1.7E 0336/2.3E	0842 2036 0630 2118 0730 2212 0636 1830 0712	1136/3.4F 2342/3.6F 0906/1.2E 2312/0.8E 1024/1.1E 0948/2.7F 2200/3.4F 1024/2.9F	M A	5/05 Sat 5/06 Sun 5/12 Sat 5/13 Sun	1148 2354 1242 1154 2348	0206/1.8F 1542/2.4F 0254/1.5F 1642/2.4F 0200/2.0E 1418/1.4E 0230/2.3E	0442 1948 0536 2048 0536 1700	0736/1.6E 2142/0.8E 0830/1.4E 2236/0.8E 0842/2.3F 2048/3.2F 0924/2.7F 2124/3.4F	J	6/02Sat 6/03Sun 6/09Sat	1036 2224 1112 2312 1042 2236	0048/2.2F 1412/2.8F 0136/1.8F 1500/2.6F 0042/1.8E 1300/1.1E 0118/2.1E	0324 1818 0406 1906 0430 1530 0518	0624/2.0E 2012/0.9E 0712/1.8E 2100/0.8E 0724/1.8F 1924/3.0F 0818/2.2F
	4/01Sun 4/07Sat 4/08Sun 4/14Sat	0206 1454 0024 1342 0136 1448 0036 1254	0448/2.5E 1730/2.0E 0336/1.6F 1736/2.3F 0436/1.4F 1830/2.4F 0312/2.1E 1524/1.7E	0842 2036 0630 2118 0730 2212 0636 1830	1136/3.4F 2342/3.6F 0906/1.2E 2312/0.8E 1024/1.1E 0948/2.7F 2200/3.4F	A	5/05 Sat 5/06 Sun 5/12 Sat	1148 2354 1242 1154 2348 1236	0206/1.8F 1542/2.4F 0254/1.5F 1642/2.4F 0200/2.0E 1418/1.4E 0230/2.3E 1500/1.4E	0442 1948 0536 2048 0536 1700 0618 1742	0736/1.6E 2142/0.8E 0830/1.4E 2236/0.8E 0842/2.3F 2048/3.2F	JUN	6/02Sat 6/03Sun 6/09Sat 6/10Sun	1036 2224 1112 2312 1042 2236 1136 2306	0048/2.2F 1412/2.8F 0136/1.8F 1500/2.6F 0042/1.8E 1300/1.1E 0118/2.1E 1348/1.1E	0324 1818 0406 1906 0430 1530 0518 1618	0624/2.0E 2012/0.9E 0712/1.8E 2100/0.8E 0724/1.8F 1924/3.0F 0818/2.2F 2012/3.2F
P	4/01Sun 4/07Sat 4/08Sun 4/14Sat	0206 1454 0024 1342 0136 1448 0036 1254 0100 1336	0448/2.5E 1730/2.0E 0336/1.6F 1736/2.3F 0436/1.4F 1830/2.4F 0312/2.1E 1524/1.7E 0336/2.3E 1606/1.7E	0842 2036 0630 2118 0730 2212 0636 1830 0712 1906	1136/3.4F 2342/3.6F 0906/1.2E 2312/0.8E 1024/1.1E 0948/2.7F 2200/3.4F 1024/2.9F 2236/3.5F	M A Y	5/05Sat 5/06Sun 5/12Sat 5/13Sun 5/19Sat	1148 2354 1242 1154 2348 1236	0206/1.8F 1542/2.4F 0254/1.5F 1642/2.4F 0200/2.0E 1418/1.4E 0230/2.3E 1500/1.4E 0118/2.8F 1424/3.3F	0442 1948 0536 2048 0536 1700 0618 1742 0348 1818	0736/1.6E 2142/0.8E 0830/1.4E 2236/0.8E 0842/2.3F 2048/3.2F 0924/2.7F 2124/3.4F 0636/2.8E 2024/1.0E		6/02Sat 6/03Sun 6/09Sat 6/10Sun	1036 2224 1112 2312 1042 2236 1136 2306	0048/2.2F 1412/2.8F 0136/1.8F 1500/2.6F 0042/1.8E 1300/1.1E 0118/2.1E 1348/1.1E	0324 1818 0406 1906 0430 1530 0518 1618	0624/2.0E 2012/0.9E 0712/1.8E 2100/0.8E 0724/1.8F 1924/3.0F 0818/2.2F 2012/3.2F
P	4/01Sun 4/07Sat 4/08Sun 4/14Sat 4/15Sun 4/21Sat	0206 1454 0024 1342 0136 1448 0036 1254 0100 1336	0448/2.5E 1730/2.0E 0336/1.6F 1736/2.3F 0436/1.4F 1830/2.4F 0312/2.1E 1524/1.7E 0336/2.3E 1606/1.7E	0842 2036 0630 2118 0730 2212 0636 1830 0712 1906	1136/3.4F 2342/3.6F 0906/1.2E 2312/0.8E 1024/1.1E 0948/2.7F 2200/3.4F 1024/2.9F 2236/3.5F 0748/2.4E 2154/0.9E	A	5/05 Sat 5/06 Sun 5/12 Sat 5/13 Sun	1148 2354 1242 1154 2348 1236	0206/1.8F 1542/2.4F 0254/1.5F 1642/2.4F 0200/2.0E 1418/1.4E 0230/2.3E 1500/1.4E	0442 1948 0536 2048 0536 1700 0618 1742	0736/1.6E 2142/0.8E 0830/1.4E 2236/0.8E 0842/2.3F 2048/3.2F 0924/2.7F 2124/3.4F		6/02Sat 6/03Sun 6/09Sat 6/10Sun 6/16Sat	1036 2224 1112 2312 1042 2236 1136 2306 0954 2136	0048/2.2F 1412/2.8F 0136/1.8F 1500/2.6F 0042/1.8E 1300/1.1E 0118/2.1E 1348/1.1E 0006/3.2F 1312/3.7F	0324 1818 0406 1906 0430 1530 0518 1618	0624/2.0E 2012/0.9E 0712/1.8E 2100/0.8E 0724/1.8F 1924/3.0F 0818/2.2F 2012/3.2F 0536/3.1E 1906/1.2E
P	4/01Sun 4/07Sat 4/08Sun 4/14Sat 4/15Sun	0206 1454 0024 1342 0136 1448 0036 1254 0100 1336	0448/2.5E 1730/2.0E 0336/1.6F 1736/2.3F 0436/1.4F 1830/2.4F 0312/2.1E 1524/1.7E 0336/2.3E 1606/1.7E	0842 2036 0630 2118 0730 2212 0636 1830 0712 1906 0506 1942 0612	1136/3.4F 2342/3.6F 0906/1.2E 2312/0.8E 1024/1.1E 0948/2.7F 2200/3.4F 1024/2.9F 2236/3.5F 0748/2.4E 2154/0.9E 0854/2.1E	A	5/05Sat 5/06Sun 5/12Sat 5/13Sun 5/19Sat 5/20Sun	1148 2354 1242 1154 2348 1236 1048 2248	0206/1.8F 1542/2.4F 0254/1.5F 1642/2.4F 0200/2.0E 1418/1.4E 0230/2.3E 1500/1.4E 0118/2.8F 1424/3.3F 0212/2.5F 1524/3.2F	0442 1948 0536 2048 0536 1700 0618 1742 0348 1818 0442 1918	0736/1.6E 2142/0.8E 0830/1.4E 2236/0.8E 0842/2.3F 2048/3.2F 0924/2.7F 2124/3.4F 0636/2.8E 2024/1.0E 0736/2.5E 2130/1.1E		6/02Sat 6/03Sun 6/09Sat 6/10Sun 6/16Sat 6/17Sun	1036 2224 1112 2312 1042 2236 1136 2306 0954 2136	0048/2.2F 1412/2.8F 0136/1.8F 1500/2.6F 0042/1.8E 1300/1.1E 0118/2.1E 1348/1.1E 0006/3.2F 1312/3.7F 0100/2.9F 1400/3.6F	0324 1818 0406 1906 0430 1530 0518 1618 0242 1654 0336 1748	0624/2.0E 2012/0.9E 0712/1.8E 2100/0.8E 0724/1.8F 1924/3.0F 0818/2.2F 2012/3.2F 0536/3.1E 1906/1.2E 0630/2.9E 2006/1.3E
P	4/01Sun 4/07Sat 4/08Sun 4/14Sat 4/15Sun 4/21Sat	0206 1454 0024 1342 0136 1448 0036 1254 0100 1336	0448/2.5E 1730/2.0E 0336/1.6F 1736/2.3F 0436/1.4F 1830/2.4F 0312/2.1E 1524/1.7E 0336/2.3E 1606/1.7E	0842 2036 0630 2118 0730 2212 0636 1830 0712 1906	1136/3.4F 2342/3.6F 0906/1.2E 2312/0.8E 1024/1.1E 0948/2.7F 2200/3.4F 1024/2.9F 2236/3.5F 0748/2.4E 2154/0.9E	A	5/05Sat 5/06Sun 5/12Sat 5/13Sun 5/19Sat	1148 2354 1242 1154 2348 1236 1048 2248 1148	0206/1.8F 1542/2.4F 0254/1.5F 1642/2.4F 0200/2.0E 1418/1.4E 0230/2.3E 1500/1.4E 0118/2.8F 1424/3.3F 0212/2.5F 1524/3.2F	0442 1948 0536 2048 0536 1700 0618 1742 0348 1818 0442 1918	0736/1.6E 2142/0.8E 0830/1.4E 2236/0.8E 0842/2.3F 2048/3.2F 0924/2.7F 2124/3.4F 0636/2.8E 2024/1.0E 0736/2.5E 2130/1.1E		6/02Sat 6/03Sun 6/09Sat 6/10Sun 6/16Sat	1036 2224 1112 2312 1042 2236 1136 2306 0954 2136 1042 2242	0048/2.2F 1412/2.8F 0136/1.8F 1500/2.6F 0042/1.8E 1300/1.1E 0118/2.1E 1348/1.1E 0006/3.2F 1312/3.7F 0100/2.9F	0324 1818 0406 1906 0430 1530 0518 1618 0242 1654	0624/2.0E 2012/0.9E 0712/1.8E 2100/0.8E 0724/1.8F 1924/3.0F 0818/2.2F 2012/3.2F 0536/3.1E 1906/1.2E 0630/2.9E
P	4/01Sun 4/07Sat 4/08Sun 4/14Sat 4/15Sun 4/21Sat	0206 1454 0024 1342 0136 1448 0036 1254 0100 1336 1200 0012 1318	0348/2.5E 1730/2.0E 0336/1.6F 1736/2.3F 0436/1.4F 1830/2.4F 0312/2.1E 1524/1.7E 0336/2.3E 1606/1.7E 0230/2.5F 1548/2.8F 0336/2.2F 1654/3.0F	0842 2036 0630 2118 0730 2212 0636 1830 0712 1906 0506 1942 0612 2048	1136/3.4F 2342/3.6F 0906/1.2E 2312/0.8E 1024/1.1E 0948/2.7F 2200/3.4F 1024/2.9F 2236/3.5F 0748/2.4E 2154/0.9E 0854/2.1E 2306/1.1E	A	5/05Sat 5/06Sun 5/12Sat 5/13Sun 5/19Sat 5/20Sun 5/26Sat	1148 2354 1242 1154 2348 1236 1048 2248	0206/1.8F 1542/2.4F 0254/1.5F 1642/2.4F 0200/2.0E 1418/1.4E 0230/2.3E 1500/1.4E 0118/2.8F 1424/3.3F 0212/2.5F 1524/3.2F 0200/2.4E 1424/1.6E	0442 1948 0536 2048 0536 1700 0618 1742 0348 1818 0442 1918	0736/1.6E 2142/0.8E 0830/1.4E 2236/0.8E 0842/2.3F 2048/3.2F 0924/2.7F 2124/3.4F 0636/2.8E 2024/1.0E 0736/2.5E 2130/1.1E		6/02Sat 6/03Sun 6/09Sat 6/10Sun 6/16Sat 6/17Sun 6/23Sat	1036 2224 1112 2312 1042 2236 1136 2306 0954 2136 1042 2242	0048/2.2F 1412/2.8F 0136/1.8F 1500/2.6F 0042/1.8E 1300/1.1E 0118/2.1E 1348/1.1E 0006/3.2F 1312/3.7F 0100/2.9F 1400/3.6F 0042/2.1E 1306/1.3E	0324 1818 0406 1906 0430 1530 0518 1618 0242 1654 0336 1748	0624/2.0E 2012/0.9E 0712/1.8E 2100/0.8E 0724/1.8F 1924/3.0F 0818/2.2F 2012/3.2F 0536/3.1E 1906/1.2E 0630/2.9E 2006/1.3E
P	4/01Sun 4/07Sat 4/08Sun 4/14Sat 4/15Sun 4/21Sat 4/22Sun 4/28Sat	0206 1454 0024 1342 0136 1448 0036 1254 0100 1336 1200 0012 1318	0348/2.5E 1730/2.0E 0336/1.6F 1736/2.3F 0436/1.4F 1830/2.4F 0312/2.1E 1524/1.7E 0336/2.3E 1606/1.7E 0230/2.5F 1548/2.8F 0336/2.2F 1654/3.0F	0842 2036 0630 2118 0730 2212 0636 1830 0712 1906 0506 1942 0612 2048	1136/3.4F 2342/3.6F 0906/1.2E 2312/0.8E 1024/1.1E 0948/2.7F 2200/3.4F 1024/2.9F 2236/3.5F 0748/2.4E 2154/0.9E 0854/2.1E 2306/1.1E	A	5/05Sat 5/06Sun 5/12Sat 5/13Sun 5/19Sat 5/20Sun	1148 2354 1242 1154 2348 1236 1048 2248 1148	0206/1.8F 1542/2.4F 0254/1.5F 1642/2.4F 0200/2.0E 1418/1.4E 0230/2.3E 1500/1.4E 0118/2.8F 1424/3.3F 0212/2.5F 1524/3.2F 0200/2.4E 1424/1.6E	0442 1948 0536 2048 0536 1700 0618 1742 0348 1818 0442 1918 0600 1724	0736/1.6E 2142/0.8E 0830/1.4E 2236/0.8E 0842/2.3F 2048/3.2F 0924/2.7F 2124/3.4F 0636/2.8E 2024/1.0E 0736/2.5E 2130/1.1E 0848/3.0F 2042/3.6F		6/02Sat 6/03Sun 6/09Sat 6/10Sun 6/16Sat 6/17Sun	1036 2224 1112 2312 1042 2236 1136 2306 0954 2136 1042 2242 1054 2236 1154	0048/2.2F 1412/2.8F 0136/1.8F 1500/2.6F 0042/1.8E 1300/1.1E 0118/2.1E 1348/1.1E 0006/3.2F 1312/3.7F 0100/2.9F 1400/3.6F	0324 1818 0406 1906 0430 1530 0518 1618 0242 1654 0336 1748	0624/2.0E 2012/0.9E 0712/1.8E 2100/0.8E 0724/1.8F 1924/3.0F 0818/2.2F 2012/3.2F 0536/3.1E 1906/1.2E 0630/2.9E 2006/1.3E
P	4/01Sun 4/07Sat 4/08Sun 4/14Sat 4/15Sun 4/21Sat 4/22Sun	0206 1454 0024 1342 0136 1448 0036 1254 0100 1336 1200 0012 1318 0018 1300 0054	0348/2.5E 1730/2.0E 0336/1.6F 1736/2.3F 0436/1.4F 1830/2.4F 0312/2.1E 1524/1.7E 0336/2.3E 1606/1.7E 0230/2.5F 1548/2.8F 0336/2.2F 1654/3.0F 0306/2.6E 1536/1.9E 0342/2.7E	0842 2036 0630 2118 0730 2212 0636 1830 0712 1906 0506 1942 0612 2048 0700 1842 0748	1136/3.4F 2342/3.6F 0906/1.2E 2312/0.8E 1024/1.1E 0948/2.7F 2200/3.4F 1024/2.9F 2236/3.5F 0748/2.4E 2154/0.9E 0854/2.1E 2306/1.1E	A	5/05Sat 5/06Sun 5/12Sat 5/13Sun 5/19Sat 5/20Sun 5/26Sat	1148 2354 1242 1154 2348 1236 1048 2248 1148 1200 2348	0206/1.8F 1542/2.4F 0254/1.5F 1642/2.4F 0200/2.0E 1418/1.4E 0230/2.3E 1500/1.4E 0118/2.8F 1424/3.3F 0212/2.5F 1524/3.2F 0200/2.4E 1424/1.6E	0442 1948 0536 2048 0536 1700 0618 1742 0348 1818 0442 1918	0736/1.6E 2142/0.8E 0830/1.4E 2236/0.8E 0842/2.3F 2048/3.2F 0924/2.7F 2124/3.4F 0636/2.8E 2024/1.0E 0736/2.5E 2130/1.1E		6/02Sat 6/03Sun 6/09Sat 6/10Sun 6/16Sat 6/17Sun 6/23Sat 6/24Sun	1036 2224 1112 2312 1042 2236 1136 2306 0954 2136 1042 2242 1054 2236 1154 2318	0048/2.2F 1412/2.8F 0136/1.8F 1500/2.6F 0042/1.8E 1300/1.1E 0118/2.1E 1348/1.1E 0006/3.2F 1312/3.7F 0100/2.9F 1400/3.6F 0042/2.1E 1306/1.3E 0130/2.2E 1400/1.3E	0324 1818 0406 1906 0430 1530 0518 1618 0242 1654 0336 1748 0454 1554	0624/2.0E 2012/0.9E 0712/1.8E 2100/0.8E 0724/1.8F 1924/3.0F 0818/2.2F 2012/3.2F 0536/3.1E 1906/1.2E 0630/2.9E 2006/1.3E 0742/2.5F 1918/3.2F
P	4/01Sun 4/07Sat 4/08Sun 4/14Sat 4/15Sun 4/21Sat 4/22Sun 4/28Sat	0206 1454 0024 1342 0136 1448 0036 1254 0100 1336 1200 0012 1318	0348/2.5E 1730/2.0E 0336/1.6F 1736/2.3F 0436/1.4F 1830/2.4F 0312/2.1E 1524/1.7E 0336/2.3E 1606/1.7E 0230/2.5F 1548/2.8F 0336/2.2F 1654/3.0F	0842 2036 0630 2118 0730 2212 0636 1830 0712 1906 0506 1942 0612 2048	1136/3.4F 2342/3.6F 0906/1.2E 2312/0.8E 1024/1.1E 0948/2.7F 2200/3.4F 1024/2.9F 2236/3.5F 0748/2.4E 2154/0.9E 0854/2.1E 2306/1.1E	A	5/05Sat 5/06Sun 5/12Sat 5/13Sun 5/19Sat 5/20Sun 5/26Sat 5/27Sun	1148 2354 1242 1154 2348 1236 1048 2248 1148 1200 2348	0206/1.8F 1542/2.4F 0254/1.5F 1642/2.4F 0200/2.0E 1418/1.4E 0230/2.3E 1500/1.4E 0118/2.8F 1424/3.3F 0212/2.5F 1524/3.2F 0200/2.4E 1424/1.6E 0242/2.5E 1512/1.5E	0442 1948 0536 2048 0536 1700 0618 1742 0348 1818 0442 1918 0600 1724 0648 1806	0736/1.6E 2142/0.8E 0830/1.4E 2236/0.8E 0842/2.3F 2048/3.2F 0924/2.7F 2124/3.4F 0636/2.8E 2024/1.0E 0736/2.5E 2130/1.1E 0848/3.0F 2042/3.6F		6/02Sat 6/03Sun 6/09Sat 6/10Sun 6/16Sat 6/17Sun 6/23Sat	1036 2224 1112 2312 1042 2236 1136 2306 0954 2136 1042 2242 1054 2236 1154	0048/2.2F 1412/2.8F 0136/1.8F 1500/2.6F 0042/1.8E 1300/1.1E 0118/2.1E 1348/1.1E 0006/3.2F 1312/3.7F 0100/2.9F 1400/3.6F 0042/2.1E 1306/1.3E 0130/2.2E	0324 1818 0406 1906 0430 1530 0518 1618 0242 1654 0336 1748 0454 1554	0624/2.0E 2012/0.9E 0712/1.8E 2100/0.8E 0724/1.8F 1924/3.0F 0818/2.2F 2012/3.2F 0536/3.1E 1906/1.2E 0630/2.9E 2006/1.3E 0742/2.5F 1918/3.2F

VHF Radio Channel Uses

Of all the safety equipment on your boat, your VHF radio is probably the most effective and essential. Because VHF uses common frequencies, it's important to remember a few rules of marine radio etiquette:

- Radio checks, which should be performed at least every time you leave your slip, should always be conducted on channel
 never on channel 16.
- Before hailing another station on channel 16, listen for at least one minute before

keying your mic, so as not to "step" on radio traffic that's already underway.

- Speak slowly and pause for at least a minute between hailing attempts.
- Always start on the "low" power setting.
- Don't use the radio if you have non-emergency traffic that can be accomplished with a mobile phone.

July - December

NOAA Predictions at the Golden Gate Entrance

	date/day	Slack	max	slack	max		date/day		max	slack	max		date/day	slack	max	slack	max
	7/01 Sun	1006	0024/2.3F 1336/3.0F	0306 1730	0606/2.1E 1936/1.0E		8/04 Sat	0036	0412/1.6F	0724	0954/0.9E		9/01 Sat	1106	0242/2.0F 1454/2.6F	0554 1748	0824/1.1E 2018/1.9E
		2148	1330/3.01	1730	1930/1.UL			1224	1624/2.6F	1930	2206/1.6E	S		2354			
							8/05 Sun	0148	0524/1.7F	0854	1112/0.8E	Ε	9/02 Sun	1200	0348/1.9F 1548/2.5F	0718 1842	0936/0.8E 2112/1.8E
	7/07 Sat	0242	0554/1.5F	0912	1136/0.9E	Α		1324	1724/2.6F	2024	2300/1.8E		9/03 Mon		0500/2.0F	0848	1100/0.8E
_	7/00Cup	1354	1754/2.8F	2112	2348/1.8E							P		1306	1654/2.4F	1942	2224/1.8E
	7/08 Sun	0354 1454	0654/1.8F 1848/2.9F	1024 2154	1236/0.9E	U	8/11 Sat	0048	0342/3.0E	0754	1054/ 4.0 F	Т	9/08Sat		0248/2.6E	0642	0948/3.9F
Ū		1 10 1	10 10/2.01	2101		G		1418	1642/1.8E	1942	2248/3.6F	_	9/09 Sun	1300 0042	1536/2.0E 0336/2.7E	1842 0724	2148/3.5F 1030/ 4.1 F
U	7/14Sat	0142	0436/3.1E	0854	1200/3.9F	_	8/12 Sun	0142	0436/2.9E	0836	1136/ 4.1 F	E	9/09 3un	1342	1612/2.2E	1936	2236/3.7F
L		1536	1754/1.5E	2036	2354/3.3F	U		1500	1724/1.9E	2030	2342/3.5F		9/15 Sat		0306/2.4F	0642	0854/1.2E
Y	7/15 Sun	0236 1618	0530/3.0E 1842/1.6E	0936 2130	1248/3.9F	S						M		1130	1454/2.5F	1754	2030/1.6E
Ш		1010	1042/1.0E	2130			8/18 Sat	0142	0442/2.1F	0806	1024/1.1E	В	9/16 Sun	0100 1230	0424/2.2F 1548/2.1F	0800 1854	1006/0.9E 2130/1.3E
	7/21 Sat	0330	0618/2.2F	0936	1148/1.1E	T		1254	1624/2.5F	1942	2224/1.5E		0.000	1230			
		1424	1754/2.8F	2118			8/19 Sun	0254	0600/2.2F	0924	1130/1.0E	E	9/22 Sat	1248	0236/1.7E 1512/1.7E	0618 1812	0924/3.1F 2112/2.5F
	7/22 Sun		0012/1.8E	0430	0730/2.4F			1400	1724/2.3F	2042	2336/1.4E	R	9/23 Sun	0018	0312/1.8E	0642	0954/3.2F
		1042 2206	1248/1.1E	1524	1848/2.8F									1312	1542/1.8E	1848	2154/2.7F
		2200					8/25 Sat	0036	0336/2.1E	0736	1036/3.3F		9/29 Sat	00.40	0130/2.6F	0448	0712/1.2E
	7/28 Sat	0130	0430/2.3E	0842	1148/3.3F			1400	1618/1.5E	1912	2218/2.7F			0948 2230	1336/2.8F	1612	1854/2.4E
		1524	1736/1.3E	2006	2318/2.6F		8/26 Sun	0118	0412/2.1E	0800	1106/3.2F		9/30 Sun		0224/2.4F	0600	0812/0.9E
	7/29 Sun	0206	0506/2.2E	0906	1218/3.2F			1430	1654/1.6E	1942	2254/2.7F			1042	1424/2.6F	1700	1942/2.2E
		1554	1812/1.3E	2042										2330			
	date/day	slack	max	slack	max		date/day	slack	max	slack	max		date/day	slack	max	slack	max
	date/day 10/06Sat		0136/2.2E	0524	0830/3.7F		date/day 11/03Sat		0018/1.9E	slack 0354	max 0712/3.5F		date/day 12/01Sat		0442/3.4F	0812	max 1054/1.8E
	_	1148					=	1036					12/01 Sat	0112 1430	0442/3.4F 1712/2.3F	0812 2018	1054/1.8E 2300/1.7E
	10/06 Sat	1148 2342	0136/2.2E 1430/2.1E	0524 1748	0830/3.7F 2042/3.2F	N	11/03 Sat	1036 2236	0018/1.9E 1312/2.0E	0354 1642	0712/3.5F 1930/2.8F	D	=	0112 1430 0212	0442/3.4F 1712/2.3F 0536/3.5F	0812 2018 0900	1054/1.8E
	_	1148 2342	0136/2.2E	0524	0830/3.7F	N	=	1036 2236	0018/1.9E	0354	0712/3.5F		12/01 Sat	0112 1430	0442/3.4F 1712/2.3F	0812 2018	1054/1.8E 2300/1.7E
0	10/06 Sat	1148 2342 1224	0136/2.2E 1430/2.1E 0236/2.3E	0524 1748 0612	0830/3.7F 2042/3.2F 0918/3.9F	N O	11/03 Sat	1036 2236	0018/1.9E 1312/2.0E 0054/1.9E	0354 1642 0342	0712/3.5F 1930/2.8F 0700/3.7F	D E	12/01 Sat	0112 1430 0212 1536	0442/3.4F 1712/2.3F 0536/3.5F	0812 2018 0900	1054/1.8E 2300/1.7E
0	10/06 Sat 10/07 Sun	1148 2342 1224	0136/2.2E 1430/2.1E 0236/2.3E 1506/2.4E	0524 1748 0612 1842	0830/3.7F 2042/3.2F 0918/3.9F 2136/3.5F	O	11/03 Sat	1036 2236 1012 2242	0018/1.9E 1312/2.0E 0054/1.9E	0354 1642 0342	0712/3.5F 1930/2.8F 0700/3.7F		12/01Sat 12/02Sun 12/08Sat	0112 1430 0212 1536 0212 1300	0442/3.4F 1712/2.3F 0536/3.5F 1818/2.6F 0424/1.3E 1548/2.5E	0812 2018 0900 2130 0700 2018	1054/1.8E 2300/1.7E 1142/2.1E 1006/3.0F 2330/3.4F
O C	10/06 Sat 10/07 Sun	1148 2342 1224 0042	0136/2.2E 1430/2.1E 0236/2.3E 1506/2.4E 0324/2.3E	0524 1748 0612 1842 0654	0830/3.7F 2042/3.2F 0918/3.9F 2136/3.5F 1000/ 4.0 F	O V	11/03Sat 11/04Sun 11/10Sat	1036 2236 1012 2242 0318 1406	0018/1.9E 1312/2.0E 0054/1.9E 1300/2.3E 0536/1.3E 1654/2.3E	0354 1642 0342 1642 0806 2118	0712/3.5F 1930/2.8F 0700/3.7F 1930/3.1F 1118/2.8F	E C	12/01 Sat 12/02 Sun	0112 1430 0212 1536 0212 1300 0306	0442/3.4F 1712/2.3F 0536/3.5F 1818/2.6F 0424/1.3E 1548/2.5E 0518/1.2E	0812 2018 0900 2130 0700 2018 0748	1054/1.8E 2300/1.7E 1142/2.1E 1006/3.0F
C	10/06Sat 10/07Sun 10/08Mon	1148 2342 1224 0042 1306	0136/2.2E 1430/2.1E 0236/2.3E 1506/2.4E 0324/2.3E 1548/2.6E	0524 1748 0612 1842 0654 1930	0830/3.7F 2042/3.2F 0918/3.9F 2136/3.5F 1000/ 4.0 F 2230/3.6F	O	11/03Sat 11/04Sun	1036 2236 1012 2242 0318 1406	0018/1.9E 1312/2.0E 0054/1.9E 1300/2.3E 0536/1.3E 1654/2.3E 0036/3.1F	0354 1642 0342 1642 0806 2118 0418	0712/3.5F 1930/2.8F 0700/3.7F 1930/3.1F 1118/2.8F 0630/1.1E		12/01Sat 12/02Sun 12/08Sat	0112 1430 0212 1536 0212 1300	0442/3.4F 1712/2.3F 0536/3.5F 1818/2.6F 0424/1.3E 1548/2.5E	0812 2018 0900 2130 0700 2018	1054/1.8E 2300/1.7E 1142/2.1E 1006/3.0F 2330/3.4F
O C T	10/06Sat 10/07Sun 10/08Mon 10/13Sat	1148 2342 1224 0042 1306 1012 2324	0136/2.2E 1430/2.1E 0236/2.3E 1506/2.4E 0324/2.3E 1548/2.6E 0148/2.9F 1330/2.6F	0524 1748 0612 1842 0654 1930 0530 1618	0830/3.7F 2042/3.2F 0918/3.9F 2136/3.5F 1000/ 4.0 F 2230/3.6F 0742/1.3E 1906/2.0E	O V E	11/03Sat 11/04Sun 11/10Sat	1036 2236 1012 2242 0318 1406	0018/1.9E 1312/2.0E 0054/1.9E 1300/2.3E 0536/1.3E 1654/2.3E	0354 1642 0342 1642 0806 2118	0712/3.5F 1930/2.8F 0700/3.7F 1930/3.1F 1118/2.8F	E C E	12/01Sat 12/02Sun 12/08Sat	0112 1430 0212 1536 0212 1300 0306	0442/3.4F 1712/2.3F 0536/3.5F 1818/2.6F 0424/1.3E 1548/2.5E 0518/1.2E	0812 2018 0900 2130 0700 2018 0748	1054/1.8E 2300/1.7E 1142/2.1E 1006/3.0F 2330/3.4F
C	10/06Sat 10/07Sun 10/08Mon	1148 2342 1224 0042 1306 1012 2324	0136/2.2E 1430/2.1E 0236/2.3E 1506/2.4E 0324/2.3E 1548/2.6E 0148/2.9F 1330/2.6F	0524 1748 0612 1842 0654 1930 0530 1618	0830/3.7F 2042/3.2F 0918/3.9F 2136/3.5F 1000/ 4.0 F 2230/3.6F 0742/1.3E 1906/2.0E	O V E M	11/03Sat 11/04Sun 11/10Sat 11/11Sun	1036 2236 1012 2242 0318 1406 0854 2200	0018/1.9E 1312/2.0E 0054/1.9E 1300/2.3E 0536/1.3E 1654/2.3E 0036/3.1F 1200/2.4F	0354 1642 0342 1642 0806 2118 0418 1442	0712/3.5F 1930/2.8F 0700/3.7F 1930/3.1F 1118/2.8F 0630/1.1E 1736/2.1E	E C E M	12/01Sat 12/02Sun 12/08Sat 12/09Sun 12/15Sat	0112 1430 0212 1536 0212 1300 0306 1336	0442/3.4F 1712/2.3F 0536/3.5F 1818/2.6F 0424/1.3E 1548/2.5E 0518/1.2E 1630/2.3E	0812 2018 0900 2130 0700 2018 0748 2054 0742 1912	1054/1.8E 2300/1.7E 1142/2.1E 1006/3.0F 2330/3.4F 1054/2.7E 1006/1.1E 2200/1.0E
C T O	10/06Sat 10/07Sun 10/08Mon 10/13Sat 10/14Sun	1148 2342 1224 0042 1306 1012 2324	0136/2.2E 1430/2.1E 0236/2.3E 1506/2.4E 0324/2.3E 1548/2.6E 0148/2.9F 1330/2.6F 0248/2.6F 1418/2.1F	0524 1748 0612 1842 0654 1930 0530 1618 0636 1712	0830/3.7F 2042/3.2F 0918/3.9F 2136/3.5F 1000/ 4.0 F 2230/3.6F 0742/1.3E 1906/2.0E 0842/1.0E 1948/1.7E	O V E	11/03Sat 11/04Sun 11/10Sat	1036 2236 1012 2242 0318 1406 0854 2200 0148	0018/1.9E 1312/2.0E 0054/1.9E 1300/2.3E 0536/1.3E 1654/2.3E 0036/3.1F 1200/2.4F	0354 1642 0342 1642 0806 2118 0418 1442	0712/3.5F 1930/2.8F 0700/3.7F 1930/3.1F 1118/2.8F 0630/1.1E 1736/2.1E	E C E	12/01Sat 12/02Sun 12/08Sat 12/09Sun	0112 1430 0212 1536 0212 1300 0306 1336	0442/3.4F 1712/2.3F 0536/3.5F 1818/2.6F 0424/1.3E 1548/2.5E 0518/1.2E 1630/2.3E 0354/2.5F 1600/1.3F 0436/2.6F	0812 2018 0900 2130 0700 2018 0748 2054 0742 1912 0818	1054/1.8E 2300/1.7E 1142/2.1E 1006/3.0F 2330/3.4F 1054/2.7E 1006/1.1E 2200/1.0E 1048/1.3E
C	10/06Sat 10/07Sun 10/08Mon 10/13Sat	1148 2342 1224 0042 1306 1012 2324 1106	0136/2.2E 1430/2.1E 0236/2.3E 1506/2.4E 0324/2.3E 1548/2.6E 0148/2.9F 1330/2.6F 0248/2.6F 1418/2.1F	0524 1748 0612 1842 0654 1930 0530 1618 0636 1712	0830/3.7F 2042/3.2F 0918/3.9F 2136/3.5F 1000/ 4.0 F 2230/3.6F 0742/1.3E 1906/2.0E 0842/1.0E 1948/1.7E 0806/2.9F	O V E M B	11/03Sat 11/04Sun 11/10Sat 11/11Sun	1036 2236 1012 2242 0318 1406 0854 2200 0148 1500	0018/1.9E 1312/2.0E 0054/1.9E 1300/2.3E 0536/1.3E 1654/2.3E 0036/3.1F 1200/2.4F	0354 1642 0342 1642 0806 2118 0418 1442	0712/3.5F 1930/2.8F 0700/3.7F 1930/3.1F 1118/2.8F 0630/1.1E 1736/2.1E	E C E M B	12/01Sat 12/02Sun 12/08Sat 12/09Sun 12/15Sat	0112 1430 0212 1536 0212 1300 0306 1336	0442/3.4F 1712/2.3F 0536/3.5F 1818/2.6F 0424/1.3E 1548/2.5E 0518/1.2E 1630/2.3E	0812 2018 0900 2130 0700 2018 0748 2054 0742 1912	1054/1.8E 2300/1.7E 1142/2.1E 1006/3.0F 2330/3.4F 1054/2.7E 1006/1.1E 2200/1.0E
C T O	10/06Sat 10/07Sun 10/08Mon 10/13Sat 10/14Sun	1148 2342 1224 0042 1306 1012 2324	0136/2.2E 1430/2.1E 0236/2.3E 1506/2.4E 0324/2.3E 1548/2.6E 0148/2.9F 1330/2.6F 0248/2.6F 1418/2.1F	0524 1748 0612 1842 0654 1930 0530 1618 0636 1712	0830/3.7F 2042/3.2F 0918/3.9F 2136/3.5F 1000/ 4.0 F 2230/3.6F 0742/1.3E 1906/2.0E 0842/1.0E 1948/1.7E	O V E M B	11/03Sat 11/04Sun 11/10Sat 11/11Sun 11/17Sat	1036 2236 1012 2242 0318 1406 0854 2200 0148 1500	0018/1.9E 1312/2.0E 0054/1.9E 1300/2.3E 0536/1.3E 1654/2.3E 0036/3.1F 1200/2.4F	0354 1642 0342 1642 0806 2118 0418 1442	0712/3.5F 1930/2.8F 0700/3.7F 1930/3.1F 1118/2.8F 0630/1.1E 1736/2.1E 1136/1.4E 2336/1.1E	E C E M B	12/01Sat 12/02Sun 12/08Sat 12/09Sun 12/15Sat	0112 1430 0212 1536 0212 1300 0306 1336 1306 0036 1418	0442/3.4F 1712/2.3F 0536/3.5F 1818/2.6F 0424/1.3E 1548/2.5E 0518/1.2E 1630/2.3E 0354/2.5F 1600/1.3F 0436/2.6F	0812 2018 0900 2130 0700 2018 0748 2054 0742 1912 0818	1054/1.8E 2300/1.7E 1142/2.1E 1006/3.0F 2330/3.4F 1054/2.7E 1006/1.1E 2200/1.0E 1048/1.3E
C T O B	10/06Sat 10/07Sun 10/08Mon 10/13Sat 10/14Sun	1148 2342 1224 0042 1306 1012 2324 1106 1130 2318	0136/2.2E 1430/2.1E 0236/2.3E 1506/2.4E 0324/2.3E 1548/2.6E 0148/2.9F 1330/2.6F 0248/2.6F 1418/2.1F 0118/1.3E 1354/1.6E	0524 1748 0612 1842 0654 1930 0530 1618 0636 1712 0442 1712	0830/3.7F 2042/3.2F 0918/3.9F 2136/3.5F 1000/4.0F 2230/3.6F 0742/1.3E 1906/2.0E 0842/1.0E 1948/1.7E 0806/2.9F 2006/2.0F	O V E M B	11/03Sat 11/04Sun 11/10Sat 11/11Sun 11/17Sat	1036 2236 1012 2242 0318 1406 0854 2200 0148 1500 0230 1548 0018	0018/1.9E 1312/2.0E 0054/1.9E 1300/2.3E 0536/1.3E 1654/2.3E 0036/3.1F 1200/2.4F 0536/2.6F 1742/1.5F 0612/2.7F 1836/1.8F	0354 1642 0342 1642 0806 2118 0418 1442 0918 2100 0942 2154 0500	0712/3.5F 1930/2.8F 0700/3.7F 1930/3.1F 1118/2.8F 0630/1.1E 1736/2.1E 1136/1.4E 2336/1.1E 1212/1.6E	E C E M B	12/01Sat 12/02Sun 12/08Sat 12/09Sun 12/15Sat 12/16Sun 12/22Sat	0112 1430 0212 1536 0212 1300 0306 1336 1306 0036 1418	0442/3.4F 1712/2.3F 0536/3.5F 1818/2.6F 0424/1.3E 1548/2.5E 0518/1.2E 1630/2.3E 0354/2.5F 1600/1.3F 0436/2.6F 1706/1.4F	0812 2018 0900 2130 0700 2018 0748 2054 0742 1912 0818 2030	1054/1.8E 2300/1.7E 1142/2.1E 1006/3.0F 2330/3.4F 1054/2.7E 1006/1.1E 2200/1.0E 1048/1.3E 2254/0.9E 0906/3.3F 2212/3.4F
C T O B	10/06Sat 10/07Sun 10/08Mon 10/13Sat 10/14Sun 10/20Sat	1148 2342 1224 0042 1306 1012 2324 1106 1130 2318	0136/2.2E 1430/2.1E 0236/2.3E 1506/2.4E 0324/2.3E 1548/2.6E 0148/2.9F 1330/2.6F 0248/2.6F 1418/2.1F 0118/1.3E	0524 1748 0612 1842 0654 1930 0530 1618 0636 1712 0442 1712	0830/3.7F 2042/3.2F 0918/3.9F 2136/3.5F 1000/ 4.0 F 2230/3.6F 0742/1.3E 1906/2.0E 0842/1.0E 1948/1.7E 0806/2.9F 2006/2.0F	O V E M B	11/03Sat 11/04Sun 11/10Sat 11/11Sun 11/17Sat 11/18Sun 11/22Th	1036 2236 1012 2242 0318 1406 0854 2200 0148 1500 0230 1548 0018 1136	0018/1.9E 1312/2.0E 0054/1.9E 1300/2.3E 0536/1.3E 1654/2.3E 0036/3.1F 1200/2.4F 0536/2.6F 1742/1.5F 0612/2.7F 1836/1.8F 0230/1.2E 1418/2.8E	0354 1642 0342 1642 0806 2118 0418 1442 0918 2100 0942 2154 0500 1824	0712/3.5F 1930/2.8F 0700/3.7F 1930/3.1F 1118/2.8F 0630/1.1E 1736/2.1E 1136/1.4E 2336/1.1E 1212/1.6E	E C E M B	12/01Sat 12/02Sun 12/08Sat 12/09Sun 12/15Sat 12/16Sun	0112 1430 0212 1536 0212 1300 0306 1336 1306 0036 1418 0054 1148 0142	0442/3.4F 1712/2.3F 0536/3.5F 1818/2.6F 0424/1.3E 1548/2.5E 0518/1.2E 1630/2.3E 0354/2.5F 1600/1.3F 0436/2.6F 1706/1.4F	0812 2018 0900 2130 0700 2018 0748 2054 0742 1912 0818 2030 0524 1854 0618	1054/1.8E 2300/1.7E 1142/2.1E 1006/3.0F 2330/3.4F 1054/2.7E 1006/1.1E 2200/1.0E 1048/1.3E 2254/0.9E 0906/3.3F 2212/3.4F 0954/3.3F
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Ch	. # Intended Use	Ch. #	Intended Use
16	Distress, safety, calling. Monitored by the Coast Guard and public coast stations.	22A	U.S. Coast Guard Communications with USCG stations, vessels and aircraft after contact on channel 13 or 16.
6	Intership safety purposes and search and rescue (SAR) communications. Not to be used for non-safety matters.	7A, 8, 9, 10,11, 18A, 19A, 79A, 80A, 88A	Port Operations. Commercial (intership and ship to coast) working channel. Commercial vessel business and operational needs.
12	Offshore Vessel Movement Reporting System. In use from Pilot Boarding Precautionary Area Approach buoys N, W and S to outer limits of System (N 41 nm, W 29 nm, S29 nm).	9, 68, 69, 71, 72, 77A, 78A	Port Operations. Commercial (intership and ship to coast) working channel. Supplies, repairs, berthing, yacht harbors, marinas. These are the channels used by race committees.
13	Bridge to Bridge commercial vessel navigation and safety communications. In use from the Offshore Pilot Boarding Precautionary Area (buoy SF #1 – Sea Buoy) to inside the Bay and throughout the Delta regions.	26, 84, 87 27, 28, 86 25, 26, 27, 28	Marine Radio-Telephone Operators San Francisco, Sacramento, Stockton, Delta North: Bodega Bay to Fort Bragg and 50 miles out South: Santa Cruz to Point Sur and 50 miles out
14	Vessel Traffic Service (VTS). Power Driven Vessels (40+ meters), Passenger Vessels (50+ passengers), Towing Vessels (8+ meters w/tow), Marine Events (committee boat, organizer). Check in,	12, 20, 65A, 66A, 73, 74	Coast Guard Port Operations. Traffic advisory for use by agencies directing movements of vessels in or near ports. Offshore Vessel Movement Reporting System.
	MONITOR, update, check out.	WX 1-2-3	Weather (receive only).

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Peggy Lidster
Express 27 Class President
www.express27.org
athenaexpress27@gmail.com

2018 Beer Can Series

The 2018 Beer Can Series Schedule follows. Beer can races are great venues for sailors to learn racing skills, try out new crew, bring the family, socialize, and have fun.

If your club has a beer can series you would like to list here next year, please email your schedule and contact information to soren@latitude38.com, or fax it to (415) 383-5816, by November 10, 2018.

Ballena Bay Yacht Club

Friday Night Grillers: 3/30, 4/13, 4/27, 5/11, 5/25, 6/8, 6/22, 7/20, 8/3, 8/17, 8/31, 9/14. (510) 865-2511, race@bbyc.org, www.bbyc.org

Bay View Boat Club

Monday Night Madness. Spring: 4/16, 4/30, 5/14, 5/28, 6/11, 6/18 (make-up). Fall: 7/23, 8/6, 8/20, 9/3, 9/17, 9/24 (make-up). Barbara Attard, (415) 308-9633, battard@comcast.net, www.bayviewboatclub.org

Benicia Yacht Club

Thursday nights: 4/5-9/27. Dan Carnahan, (707) 319-5706, race@beniciayachtclub.com, www.beniciayachtclub.com

Berkeley Yacht Club

Every Friday night: 3/30-9/28. Paul Kamen, (510) 540-7968, pk@well.com, www.berkeleyyc.org

Cal Sailing Club

Races year-round, weather and tides permitting. For members only. www.cal-sailing.org

Corinthian Yacht Club

Every Friday night: 4/13-8/24. Marcus Canestra, (415) 435-4771, racing@cyc.org, www.cyc.org

Coyote Point Yacht Club

Every Wednesday night: 4/11-10/3. (650) 347-6730, regatta@cpyc.com, www.cpyc.com

Encinal Yacht Club

Friday nights. Spring Twilight Series: 4/6, 4/20, 5/4, 5/18, 6/8. Summer Twilight Series: 7/6, 7/20, 8/3, 8/17, 9/7. Ted Floyd, (925) 699-3726, rearcommodore@encinal.org, www.encinal.org

Folsom Lake Yacht Club

Wednesday Night Beer Cans: 5/2-8/29. Summer Sunset Series: 5/12, 6/16, 7/14, 8/4. (916) 534-8458, www.flyc.org

continued on page 58



Learn to Race Clinics have a multi-day curriculum designed for the novice racer. Training in the fundamentals of racing include tides and currents, sail trim, basic tactics, starts, rounding marks, and basic spinnaker sailing.

JOIN A TEAM

Coach on board to facilitate training. Learn by actually racing!

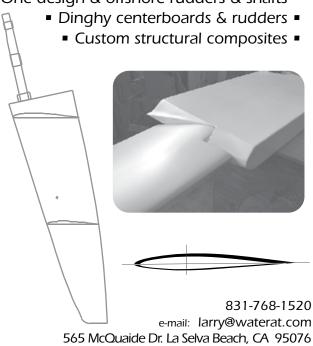
Recreation - Lightly competitive, great for recent clinic graduates **Performance** - Higher intensity, great for second year racer

Both teams participate in Spring, Summer, and Mid-Winter Races, along with major regattas throughout the year.

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ISLAND—YACHT CLUB

Located in the Alameda Marina 1853 Clement Avenue, Building 14

2018 RACING SCHEDULE

1/14, 2/11, 3/11: Estuary Midwinters Island Days

Mar 31: Sadie Hawkins Woman-Skippered Race

on the Estuary, Full Crew

Apr 7: 37th Annual Doublehanded Lightship



Apr-Sept: Spring & Summer Twilight Series

Friday evening beer can racing

Apr-Sept: Interclub Races

June 30: Silver Eagle Long Distance Race,

Classic Course and Shortened Course

Sept 22-23: Northern California

Women's Sailing Seminar & Regatta 'Capture the Power', with flat water Estuary racing on September 23

Nov 4: Jill & Jack +1 Woman-Skippered

Triplehanded Race on the Estuary

Nov 18: Commodore's Challenge

Nov '18-Mar '19: Estuary Midwinters Island Days
Second Sundays of each month

Sadie and Jill & Jack are counters in the Latitude 38 Woman's Circuit
 Member of PICYA



For information, see www.iyc.org

racing@iyc.org • (510) 263-8388

2018 Beer Can Series

continued from page 56

Golden Gate Yacht Club

Friday nights: 5/4, 5/18, 6/1, 6/15, 6/29, 7/13, 7/27,

8/10, 8/24.

Charles Hodgkins, (510) 504-4076, raceoffice@ggyc.com, www.ggyc.com

Island Yacht Club

Friday nights.

Spring Island nights: 4/13, 4/27, 5/11, 6/1, 6/15. Summer Island nights: 7/13, 7/27, 8/10, 8/24, 9/14.

David Ross, (510) 521-2985, iycracing@yahoo.com, www.iyc.org

Konocti Bay Sailing Club

Old Salts in Retirement, every Wednesday at noon, year 'round. www.kbsail.org

Lake Tahoe Windjammers Yacht Club

Wednesday nights: June 27-October 10. Jeff Fellicetti, (775) 544 8268, felicettijeffrey@gmail. com, www.tahoewindjammers.com

Lake Washington Sailing Club

Every Thursday Night: May-September. www.lwsailing.org

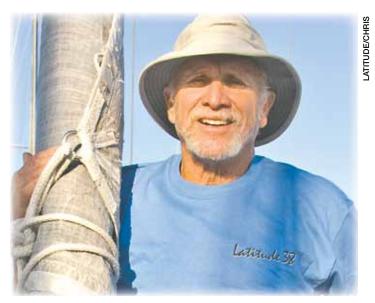
Lake Yosemite Sailing Association

Every Thursday Night: May-September. Dennis Wainwright, (209) 722-1947, speedyw1955@yahoo.com, www.lakeyosemitesailing.org

Monterey Peninsula Yacht Club

Wednesday nights: Sunset Series, late September-March. race@mpyc.org, www.mpyc.org





King of the Beer Cans. Chuck Hooper conquered *Latitude 38*'s Beer Can Challenge on the Contessa 33 *Warwhoop* September 18-23, sailing in a different series for five evenings in a row mostly singlehanded.

Oakland Yacht Club

Sweet 16 Series.

Every Wednesday Night: 5/2-6/13 & 7/18-9/5. Jim Hild, (510) 277-4676, oycracecom@gmail.com, www.oaklandyachtclub.com

Richmond Yacht Club

Wednesday nights: 4/4, 4/18, 4/25, 5/2, 5/16, 5/23, 5/30, 6/6, 6/20, 6/27, 7/4, 7/11, 7/18, 7/25, 8/1, 8/8, 8/15, 8/22, 8/29, 9/5, 9/19, 9/26. Eric Arens, (510) 841-6022, saucierimages@comcast.net, www.richmondyc.org

Santa Cruz Yacht Club

Wednesday nights: 3/14-10/31. (831) 425-0690, scyc@scyc.org, www.scyc.org

Sausalito Yacht Club

Tuesday nights.

Spring Sunset Series: 5/8, 5/22, 6/5, 6/19. Summer Sunset Series: 7/24, 8/7, 8/21, 9/4. Mary Wand, 510-757-3317, race@sausalitoyachtclub.org, www.sausalitoyachtclub.org

Seguoia Yacht Club

Every Wednesday Night: 4/18-10/3. Scott Scherer, *(410) 212-8177, s.scherer80@gmail.com, www.sequoiayc.org

2018 Beer Can Series



Sierra Point Yacht Club

Tuesday nights: 5/1-8/28. Quincy Bragg, (650) 291-4061, racing@sierrapointyc.org www.sierrapointyc.org

South Beach Yacht Club

Friday Night Series: 4/20, 4/27, 5/4, 5/18, 5/25, 6/1, 6/15, 6/22, 6/29, 7/20, 7/27, 8/3, 8/17, 8/24. Andrew Lorenzen, (813) 695-2788, rearcommodore@southbeachyachtclub.org, www.southbeachyachtclub.org

Stockton Sailing Club

Every Wednesday Night: 6/6-8/29. (209) 951-5600, regatta16@stocktonsc.org, www.stocktonsc.org

Tahoe Yacht Club

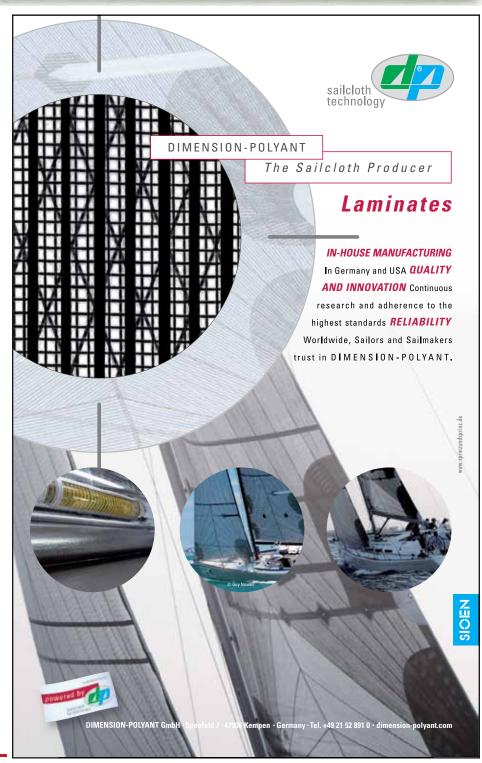
Monday nights: Laser Series, 5/28-9/10. Wednesday nights: Beer Can Series, 5/30-8/29. Andrew Casci, (530) 581-4700, gm@tahoeyc.com, www.tahoeyc.com

Tiburon Yacht Club

Every Friday night: 5/25-8/10. Cam Tuttle, (415) 789-9294, race@tyc.org, www.tyc.org

Vallejo Yacht Club

Every Wednesday night: 4/4-9/26. Mark Littlefield, (916) 835-2613, sansouci@surewest.net www.vyc.org



2018 Midwinter Series

If your organization has a midwinter series you'd like included here next year, email your schedule and contact information to soren@latitude38.com, or fax it to (415) 383-5816, by November 10, 2018.

Bay View Boat Club

Midwinter Madness. Second Saturday, October-March. Remaining 2017-2018 season: 1/13, 2/10, 3/10. Terry Mahoney, (408) 210-0517, tmahoney22@gmail.com, www.bayviewboatclub.org

Berkeley Yacht Club

Midwinters, remaining 2017-2018 season: 1/13, 1/14, 2/10, 2/11. Midwinters Champion of Champions: 2/25. Fall 2018 dates: 11/10, 11/11, 12/8, 12/9. Bobbi Tosse, (925) 939-9885, bobbi_john@jfcbat.com Chowder Series, remaining 2017-18 season: 1/7, 1/21, 1/28, 2/4, 2/18, 2/25, 3/4, 3/11, 3/18, 3/25. Fall 2018: 10/7, 10/14, 10/21, 10/28, 11/4, 11/18, 11/25, 12/2, 12/16, 12/23, 12/30. Paul Kamen, (510) 540-7968, pk@well.com, www.berkeleyyc.org

Corinthian Yacht Club

Midwinters: 1/20-21, 2/17-18.

Marcus Canestra, (415) 435-4771, racing@cyc.org, www.cyc.org

Encinal Yacht Club

Jack Frost Midwinters, remaining 2017-2018 season: 1/6, 2/3, 3/3. Fall 2018: 11/3, 12/1. Ted Floyd (925) 699-3726, rearcommodore@encinal.org, www.encinal.org

Golden Gate Yacht Club

Seaweed Soup Regatta, remaining 2017-2018 season: 1/6, 2/3, 3/3. Fall 2018: 11/3, 12/1. Charles Hodgkins 510-504-4076, raceoffice@ggyc.com, www.ggyc.org

Island Yacht Club

Island Days, remaining 2017-2018 season: 1/14, 2/11, 3/11. Fall 2018: 11/11, 12/9. John New, (510) 521-2980, iycracing@yahoo.com, www.iyc.org

Lake Merritt Sailing Club

Robinson Memorial Midwinters, remaining 2017-2018 season: 1/14, 2/10, 3/11. Peggy Darnall, (510) 836-1805.

Monterey Peninsula Yacht Club

Perry Cup Midwinters; remaining 2017-2018 season: 1/6, 2/3. Fall 2018: 12/1 race@mpyc.org, www.mpyc.org



2018 Midwinter Series

Oakland Yacht Club

Sunday Brunch Series: 1/7, 1/21, 2/4, 2/18, 3/4, 3/18, 4/1. Jim Hild, (510) 277-4676,

oycracecom@gmail.com,www.oaklandyachtclub.com

RegattaPRO

Winter One Design Series, remaining 2017-2018 season: 1/13, 2/10. Fall 2018: 11/10, 12/8,

Jeff Zarwell, (415) 595-8364,

jzarwell@regattapro.com,info@regattapro.com, www.regattapro.com

Richmond Yacht Club

Small Boat Midwinters, remaining 2017-2018 season: 1/7, 2/4, 3/4. Fall 2018: 12/2.

Nancy Pettengill, (510) 234-1253,

nancyepettengill@comcast.net, www.richmondyc.org

Santa Cruz Yacht Club

Midwinters, remaining 2017-2018 season: 1/20, 2/17, 3/17. Fall 2018: 11/17, 12/15. scyc@scyc.org, www.scyc.org

Santa Rosa Sailing Club

Spring Lake Winter Series, remaining 2017-2018 season: 1/22, 2/19, 3/19, 4/9. Fall 2018: 10/22, 11/12, 12/10. www.santarosasailingclub.org

Sausalito Yacht Club

Chili Midwinters, remaining 2017-2018 season: 1/7, 2/4, 3/4. Fall 2018: 11/4, 12/2. Mary Wand, race@sausalitoyachtclub.org, www.sausalitoyachtclub.org

Seguoia Yacht Club

Winter Series, remaining 2017-2018 season: 1/13, 2/3, 3/10, 3/17 (St. Patrick's Day Race). Fall 2018: 11/3, 12/1. Redwood Cup, remaining 2017-2018 season: 2/10, 2/24, 3/10. Fall 2018: 11/17, 12/8.

Scott Scherer, (410) 212-8177, s.scherer80@gmail.com

South Beach Yacht Club

Island Fever Series, remaining 2017-2018 season: 1/20, 2/17, 3/17, Fall 2018; 11/16, 12/15, Andrew Lorenzen, (813) 695-2788 rearcommodore@southbeachyachtclub.org, www.southbeachyachtclub.org

Tiburon Yacht Club

Midwinters: 1/6, 2/3, 3/3. Cam Tuttle, (415) 789-9294, race@tyc.org, www.tyc.org

Valleio Yacht Club

Tiny Robbins Midwinters, remaining 2017-2018 season: 1/6, 2/3, 3/3. Fall 2018: 10/6, 11/3. Mark Littlefield,)916) 835-2613, sansouci@surewest.netwww.vyc.org



Women's Circuit

The events on this page constitute *Latitude 38*'s unofficial Women's Circuit. We challenge women sailors to take the helm and create their own series of events from this list. You don't need to finish first to win, and you don't need to do all the races on the list either! Just send proof of your participation in as many events as you can to chris@latitude38.com, or fax it to (415) 383-5816, by November 10, 2018, and you could be crowned *Latitude*'s "Queen of the Women's Circuit".

Saturday, March 31

Sadie Hawkins Race, IYC David Ross, (510) 521-1985 iycracing@iyc.org, www.iyc.org

Saturday, March 17

Rites of Spring (division for all-female crews), OYC Jim Hild, (510) 277-4676, oycracecom@gmail.com, www.oaklandyachtclub.com

Saturday, March 24

Doublehanded Farallones, Double Dame Division (650) 394-6343, DHF@sfbama.org, www.sfbama.org

Saturday, July 7

Jack and Jill Race, SSC (209) 951-5600, regatta16@stocktonsc.org, www.stocktonsc.org

Sunday, August 19

Gracie & George Regatta, EYC Theo Rohr, (510) 205-2451 rearcommodore@encinal.org, www.encinal.org

Saturday, August 25

Women Skippers Regatta, SYC Mary Wand, (510) 757-3317 race@sausalitoyachtclub.org, www.sausalitoyachtclub.org

Sunday, September 9

Women's Skipper Race, PresYC Sarah Cherif, (415) 677-7917, presidioyc@gmail.com

Sunday, September TBD

Jack & Jill, KBSC www.kbsail.com

Saturday, September 22

Jack and Jill Regatta, SCYC info@scyc.org, www.scyc.org

Saturday & Sunday, September 22-23

Women's Sailing Seminar (race Sunday), IYC, David Ross, (510) 521-1985, iycracing@iyc.org, www.iyc.org

Saturday, October 13

Joan Storer Regatta, TYC Cam Tuttle, (415) 706-4580, race@tyc.org, www.tyc.org

Saturday, October 20

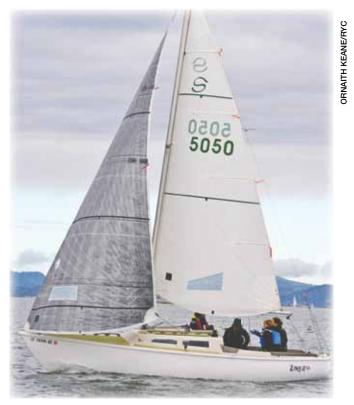
Red Bra Regatta, SBYC Andrew Lorenzen, (813) 695-2788 rearcommodore@southbeachyachtclub.org, www.southbeachyachtclub.org

Sunday, November 4

Amazing Grace Cheney Cup Gail Yando, 510-517-6081 gail.yando@sbcglobal.net, www.richmondyc.org

Sunday, November 4

Jill & Jack + 1 (woman skipper triplehanded race), IYC, David Ross, (510) 521-1985, iycracing@yahoo.com, www.iyc.org



Reigning queen of the Women's Circuit, Jennifer McKenna, racing her Santana 22 Zingaro in RYC's all-female Amazing Grace Cheney Cup.







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Information on both at: www.scyc.org/racing

2018 Shorthanded Circuit

The OYRA Series and YRA Weekend Regattas have Shorthanded Divisions. Go to www.yra.org for details. Sequoia YC has a shorthanded series for local racers. The Singlehanded Sailing Society hosts seven local regattas and the Singlehanded TransPac in even years.

Jan. 27	Three Bridge Fiasco, SSS
Feb. 24	Corinthian Regatta, SSS
March 3	Single/Doublehanded #1, SeqYC
March 17	Rites of Spring Race, OYC
March 17	Doublehanded Long Distance, SSC
March 24	Doublehanded Farallones, BAMA
March 31	Single/Doublehanded #2, Seqyc
April 7	Single/Doublehanded #3, Seqyc
April 7	Doublehanded Lightship Race, IYC
April 14	Round the Rocks, SSS
April 21	YRA OYRA Lightship
April 28-29	YRA Great Vallejo Race
May 12	YRA OYRA Duxship
May 19	Singlehanded Farallones Race, SSS
May 26	Spinnaker Cup to Monterey, SFYC/MPYC
June 9	YRA OYRA Farallones Race
June 23	YRA OYRA RC's Choice
June 30	YRA Westpoint Regatta
July 7	Jack and Jill Race, SSC
July 21	YRA OYRA One-Way to Half Moon Bay
July 22	Doublehanded Races, LTWYC
July 28-29	YRA Encinal Regatta
Aug. 4	Single/Doublehanded #4, SeqYC
Aug. 4	YRA OYRA RC's Choice
Aug. 18-19	YRA OYRA Drake's Bay Race
Aug. 19	Gracie & George Race, EYC
Aug. 20	Singlehanded Races, LTWYC
Sept. 8	Single/Doublehanded #5, SeqYC
Sept. 15	Half Moon Bay Race, SSS
Sept. 22	Shorthanded Races, TYC
Sept. 22	Jack and Jill Regatta, SCYC
Sept. 22	YRA OYRA Jr Waterhouse
Sept. 29-30	YRA Corinthian Regatta
Oct. 20-21	Vallejo 1-2, SSS
Nov. 4	Jill & Jack + 1 Race (Triplehanded), IYC



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Photo by Robbie Gabriel

Overall Winner 2012 Singlehanded TransPac

Jim Quanci, after placing 1st Overall in the 2012 Singlehanded TransPac in his Cal 40 *Green Buffalo* says:

"Thirteen days from San Francisco to Hawaii alone, 10 of those days flying the spinnaker in winds up to 32 knots without a round up or a wrap. My Alpha Spectra autopilot drove the whole way – and then drove the boat another 16 days taking us home. What more can one ask for? I just love my Alpha Spectra autopilot."

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Equipment requirements for all In-The-Bay YRA Races

These requirements are for races held within San Francisco Bay. Please check with the Organizing Authority for Ocean Races that have separate requirements.

- 1.1 These Minimum Equipment Requirements establish uniform minimum equipment and training standards for a variety of boats racing in San Francisco Bay under YRA. These regulations do not replace, but rather supplement, the requirements of the US Coast Guard, the Racing Rules of Sailing (RRS), the rules of Class Associations, and all applicable rating rules.
- 1.2 The safety of a boat and her crew is the sole and inescapable responsibility of the "person in charge," as per RRS 46, who shall ensure that the boat is seaworthy and manned by an experienced crew with sufficient ability and experience to face bad weather. S/he shall be satisfied as to the soundness of hull, spars, rigging, sails and all gear. S/he shall ensure that all safety equipment is at all times properly maintained and safely stowed and that the crew knows where it is kept and how it is to be used.
- 1.3 A boat may be inspected at any time by an inspector or measurer of the Organizing Authority. If she does not comply with these regulations her entry may be rejected, or will be liable to disqualification, or such other penalty as may be prescribed by the race protest committee.
- 1.4 All equipment required shall function properly, be regularly checked, cleaned and serviced, and be of a type, size and capacity suitable for the intended use and size of the boat and the size of the crew. This equipment shall be readily accessible while underway and, when not in use, stored in such a way that deterioration is minimized.
- 1.5 A boat's heavy items such as batteries, stoves, toolboxes, anchors, chain and internal ballast shall be secured.
- 2.5.3A boat shall have a manual bilge pump of at least a 10 GPM capacity.
- 3.1.2Each crewmember shall have a life jacket that provides at least 33.7 lbs of buoyancy. Belt packs are not allowed.
- 3.3.1A boat racing between sunset and sunrise shall carry navigation lights that meet U.S. Coast Guard or applicable government requirements mounted so that they will not be obscured by the sails nor be located below deck level.

- 3.4 A boat shall carry fire extinguisher(s) that meets U.S. Coast Guard or applicable goverment requirements, when applicable.
- 3.5 A boat shall carry sound-making devices that meets U.S. Coast Guard or applicable goverment requirements, when applicable.
- 3.6.4 A boat shall carry U.S. Coast Guard flares meeting day/night requirements not older than the expiration date. Alternately, non-pyrotechnic distress signals (distress flag for day, SOS light for night) which meet USCG requirements may be substituted.
- 3.7.3 A boat shall have a throwing sock-type heaving line of 50' (15m) or greater of floating polypropylene line readily accessible to the cockpit.
- 3.8 A boat shall carry a U.S. Coast Guard-approved Type IV throwable device.
- 3.9 A boat shall have a VHF radio which may be handheld or fixed mount.
- 3.11 A boat shall have at least one means to navigate (charts, GPS) which is appropriate for the race area and the characteristics of the boat.
- 3.19.1 A boat shall have a magnetic compass independent of the boat's electrical system suitable for steering at sea.
- 3.23 A boat shall carry one anchor, meeting the anchor manufacturer's recommendations based on the yacht's size, with a suitable combination of chain and line.
- 3.25 A boat shall carry a first aid kit and first aid manual suitable for the likely conditions of the passage and the number of crew aboard.
- 3.27.2 A boat shall carry one sturdy bucket of at least two gallons (8 liters) capacity with lanyards attached.
- 4.2 Annually, two-thirds of the boat's racing crew shall practice man-overboard procedures appropriate for the boat's size and speed. The practice shall consist of marking and returning to a position on the water, and demonstrating a method of hoisting crewmember back on deck, or other consistent means of reboarding the crewmember.



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REGATTA

PHRF Rules & Guidelines

I. Definition

The NCPHRF Committee is a Standing Committee of the Yacht Racing Association of San Francisco Bay. Its sole function is to determine the speed potential of yachts that meet the criteria of Section II below. It will assign rating values to yachts for which a rating application is filed. Such values will be in seconds per mile and assume a mixture of Around the Buoy and Windward Leeward racing on San Francisco Bay and the surrounding area. The NCPHRF Committee recognizes that the handicaps will be used in a variety of races ranging from protected bays, estuaries and lakes to open oceans. Therefore, the Committee has no responsibility for the seaworthiness or safety of yachts rated, but cites the US SAIL-ING Fundamental Rule 4 part 1: "It shall be the sole responsibility of each yacht to decide whether or not to start or to continue to race."

A variety of conditions are encountered ranging from typical late spring and summer afternoon conditions with a 15 to 25 knot wind range to the milder winds often encountered in the fall, winter and early spring ranging from 5 to 15 knots.

Windward/Leeward courses and racing in the seasons of lighter winds have become more popular. Assigned ratings for Around the Buoy Races attempt to reflect average performance over this broad range; but will necessarily be influenced by the venues in which the yacht is typically expected to sail. Additionally Downwind ratings are assigned for Port To Port races that consist essentially of off wind legs with little or no beating to weather.

It is to be expected therefore that the conditions prevalent on any given race day may favor one yacht over another and hence the silver is likely to be spread around a bit, not at all a bad thing for the less than Grand Prix arena that NCPHRF strives to satisfy.

II. Criteria

The NCPHRF Committee shall establish performance ratings for sailboats which:

- A. Have ballast and are single hulled.
- B. Have a canoe body of nineteen feet or greater.
- C. Have minimum solid ballast of 400 pounds, unless a base rating was established prior to 1998.
- D. Have submitted a properly completed application and supporting information to enable the Committee to understand the shape, size and speedproducing factors of the boat.

The Committee may decline to handicap any yacht for which it feels unable to determine a potential

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PHRF Rules & Guidelines

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speed. For boats new and or unfamiliar to the committee initial ratings will be considered provisional in nature, and may be reviewed and perhaps changed after one season or a series of races has transpired. Boats rated under any other rating system (ORR, IRC, etc), or in possession of a rating certificate from a different PHRF area, must include a copy of the certificates.

It is NCPHRF Committee policy that all documentation must be submitted to the YRA office prior to issuance of a rating. No ratings shall be given over the phone or without full documentation having been made available to the entire committee.

The Committee may invalidate a certificate at any time, where cause is in evidence such as incorrect dimensions or other than declared equipment is used. Due process will be exercised to allow the owner to be heard and corrections made if the owner in the view of the Committee provides justification. Further recourse resides in US Sailing's appeals process.

III. Ratings

The Committee shall assign ratings to yachts based on their potential boat speeds as supported by ORR and IRC ratings, and geometric data such as D, SA/D, LWL, D/L, and other configuration parameters. From time to time the Committee will review performance data and make adjustments it deems necessary. Production boats are assigned base ratings, which may be modified if the boats are changed from stock. Some of the tools used in assigning ratings are detailed below:

- A. Similarity to boats with established ratings.
- B. Ratings from National PHRF Handicaps Manual (for the current year) for other areas around the country.
- C. Pictures and drawings Out of water pictures of hull, rig, etc.
- D. Ballast Ratio: Ballast/Displacement in lbs. (most suspect of all brochure parameters)
- E. ORR Conversion: PHRF = (.95 x GPH)-520 F. SA/D = SA / $((D/64)^{667})$
- G.PHRF = 6DPN-390
- $H. D/L = (D/2240) / ((LWL/100)^3)$
- I. Prismatic Coefficient = [Actual Hull Vol. (in cubic feet less keel)]/(LWL mid-ship cross sectional area)

A yacht may have only one rating at any time. A copy of the current valid rating certificate must be on board while she is racing under these rules.

Normally base ratings are established at six seconds per mile intervals, i.e., 162 or 168 or 174 or 180, etc. In exceptional circumstances a deviation of three seconds per mile may be adopted for the base rating of a particular class or yacht.

IV. Race Results

Race results for Time-on-Distance races are calculated in the following manner: For each boat,

- (1) Multiply its PHRF rating times the race course distance (in nautical miles) to get its TIME ALLOWANCE. Note that the TIME ALLOWANCE is in seconds, because the rating is in seconds per mile. The course distance should be specified in "rhumb line" distance.
- (2) Subtract the TIME ALLOWANCE from the elapsed time required to finish the racecourse to get its CORRECTED FINISH TIME.

Now sort all the boats in the class on CORRECTED FINISH TIME. The boat with the lowest CORRECTED FINISH TIME is the winner.

Race results for Time on Time are calculated as follows: For each boat,

- (1) Calculate its Time Correction Factor (TCF) = 650 / (550 + PHRF rating)
- (2) Corrected time = TCF Elapsed time. Elapsed time can be in Seconds, Minutes, or Hours.

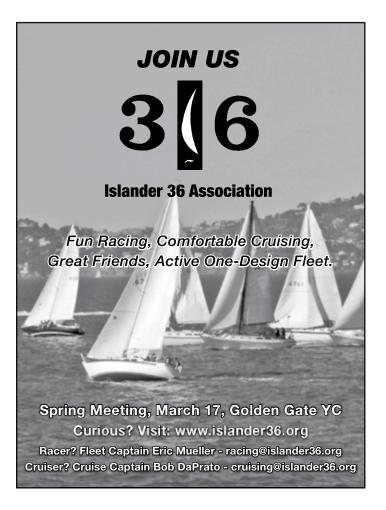
Now sort all the boats in the class on CORRECTED FINISH TIME. The boat with the lowest CORRECTED FINISH TIME is the winner.

V. One-Design Rating (I.E. ODR)

If requested, the Committee may provide ODR ratings to one-design classes that have their rules on file in the YRA office. All boats with ODR ratings while sailing in YRA/HDA or other NCPHRF races are to sail in conformation with their one design class rules within the following modifications:

- A. Strict interpretation of limitations to hull, rig and sail dimensions.
- B. No limitation on:
- (1) sail material,
- (2) number of sails carried on board while racing (so long as they are class legal size),
- (3) who may steer,
- (4) weight or number of crew members.
- C. In the case where class rules prohibit spinnakers, use of spinnakers is permitted while racing NCPHRF, but I and J strictly limit the spinnaker size.

Note that the NCPHRF committee feels that most classes attempt to equalize the speed of their boats with the imposition of the class rules, and if you choose to not use an ODR rating, the Committee





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- ◆ Mentor program for new members
- ◆ New boats now in production, but old boats just as fast
- ◆ Non-spinnaker and spinnaker races, cruise-ins and parties
- ◆ The best bang for the buck on the Bay!

co-fleet captains Kristen Soetebier & Deb Fehr Santana22sfbay@gmail.com

PHRF Rules & Guidelines

may assign you a different rating than a sister-ship that agrees to an ODR. In either case, this does not relieve you of filling out a proper application. Boats designed to utilize trapezes and/or hiking straps or whose class rules allow such devices may use them, but it must be specifically stated on their application for rating.

VI. Downwind Ratings

The PHRF Committee has established Downwind ratings, which should be utilized for races where, under normal conditions, 2/3 of the race course is expected to be a reach or a run. Current Northern California regattas that should utilize Downwind Ratings include the Saturday of the Great Vallejo Race, the Delta Ditch Run, the Coastal Cup, the Westpoint Regatta, the Spinnaker Cup, the Windjammers and the Jazz Cup.

VII. Assumptions

As noted previously Certificate ratings are based on sailing courses consisting of beating, reaching and running as well as those of approximately equal amounts of upwind and off-the-wind sailing on San Francisco Bay and surrounding areas. They should not be used for predominately downwind racing. Ratings for downwind races are covered in Article VI.

Wind Ranges can be extremely varied as noted in Article 1 with an occasional 30+ knots gearbuster. As noted in Article 1 and repeated here for emphasis, the ability of a yacht to achieve her best performance in other than the average conditions may be taken into account when there is a significant difference observed in the yachts design parameters that would better suit her to either of the extremes of conditions.

The NCPHRF Base Rating assumes that yachts:

- A. Are in optimum racing trim with all normal equipment on board;
- B. Have hull bottoms that are fair and clean;
- C. Have sails in good condition;
- D. Have a folding/feathering propeller or a stored or raised outboard;
- E. Have no jib LP greater than 155% of J; For some yachts the manufacturer delivered configuration may differ and will be so annotated in the NCPHRF Base Rating Report;
- F. For headsails, the distance from the mid-point of the leech to the closest point on the luff shall not exceed 55% of LP.
- G. Have mainsail girths not to exceed the maximums

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for MGU and MGM as prescribed in Article 7;

- H. Have spinnaker, either symmetrical or asymmetrical;
- I. Have spinnaker maximum girth of 180% of J or 180% of SPL (spinnaker pole length) whichever is greater;
- J. Have spinnaker maximum luff of .95 * [(the greater of I or ISP) 2 + (the greater of J or SPL) 2]1/2; For some yachts the manufacturer delivered configuration may differ and will be so noted in the NCPHRF Base Rating Report;
- K. Are well sailed;
- L. Are not 'stripped out.' The intent of this rule is that the boat be sailed with all the equipment on board that she had when the committee assigned the handicap. This means that all the doors, drawers; tables and systems are in place. If it is a production boat, all the items that are considered stock by the builder are still on board. If it is a custom boat, it should be as the drawings and photographs presented to the committee. If a rating certificate (IOR, IMS, IRC or MORC) was presented to help assess the boat's speed potential, she should have everything onboard that was present at the measurement. If items have been removed, depending on the weight involved, the committee may adjust the NCPHRF rating of the boat. An exception to the above stated guideline is that cushions may be removed;
- M.All sails must conform to IMS sail dimension limitations, except as may be modified by these Rules and Guidelines. Boats do not need to meet these guidelines. However, if they do not, the committee must be notified of such changes as a rating adjustment may be made.
- N. The NCPHRF Committee will review cases where the same class may have outboard or inboard engines and, where appropriate, establish a different base rating for each type of engine.

Sport Boats

The NCPHRF Committee defines a Sport Boat as any boat with a SA_DW/D ratio >=61, a D/WL ratio <=105, carries a sprit and has a LWL <32'.

VIII. Adjustments To Base Ratings

STANDARD BASE RATINGS ARE GIVEN BASED ON THE ASSUMPTIONS IN SECTION VII. DE-VIATIONS ARE CREDITED OR PENALIZED AS FOLLOWS:

A. PROPELLERS (does not apply to outboard engines) 2 blade fixed propeller: + 3 seconds

3 blade fixed propeller: + 6 seconds B. JIBS

Largest Headsail LP of 125% of J or less: + 3 seconds

Largest Headsail LP of greater than 155% of J but less than 170% of J: -3 seconds Largest Headsail LP of 170% of J or greater: -6 seconds

C. MAINSAILS

An additional handicap may be applied if these girths are exceeded. MGU = The greater of: 0.28 E + 0.016 P + .85 ft or 0.38 E MGM = The greater of: 0.5 E + 0.022 P + 1.2 ft or 0.65 E

A + 3 sec/mi credit will be given for an in-mast furling main.

A + 3 sec/mi credit will be given where the MGM is less than 50% of E.

D. SYMMETRIC SPINNAKERS

- A spinnaker pole greater than 100% of standard size, based on I & J, will receive a -3 sec/mi penalty for each 10% increase in pole length.
- A spinnaker area greater than 100% of standard size, based on I & J, will receive a -3 sec/mi penalty for each 10% increase in area.
- E. ASYMMETRIC SPINNAKERS (INCLUDES CRUISING SPINNAKERS AND GENNAKERS)
- Any increase in area over a standard asymmetrical spinnaker will be dealt with on a boat for boat basis, but in general will follow the same assessments for symmetric spinnaker area and pole length adjustments. Any ability to move the tack off centerline will likely receive a penalty of -3 sec/mi due to increased ability to effectively sail a deeper point of sail.
- F. ISP greater than I will be dealt with on a boat by boat basis.
- G. CARRYING BOTH SYMMETRIC AND ASYMMETRIC SPINNAKERS AT THE SAME TIME
- There is no penalty for carrying both a symmetric and asymmetric spinnaker at the same time. Boats typically rigged with a spinnaker pole that opt to tack their spinnaker on the centerline may receive a credit. Boats typically rigged with a fixed sprit that opt to tack their spinnaker on a moveable pole will be reviewed on a boat by boat basis and will receive a penalty.
- H.A spinnaker pole greater than 100% of standard size, based on I & J, will receive a -3 sec/mi penalty for each 10% increase in pole length. Spinnaker pole penalties are in addition to any spinnaker area penalties incurred in article D above.

No additional credit is given for:

- A. Sail inventories with the headsail LP less than 125% of J.
 - B. Absence of a spinnaker; (although it is

PHRF Rules & Guidelines

- strongly recommended the boats sail in separate divisions from spinnaker equipped boats;)
- C. Excess weight in the form of optional equipment and gear.
- D. Having a spinnaker less than 180% of J

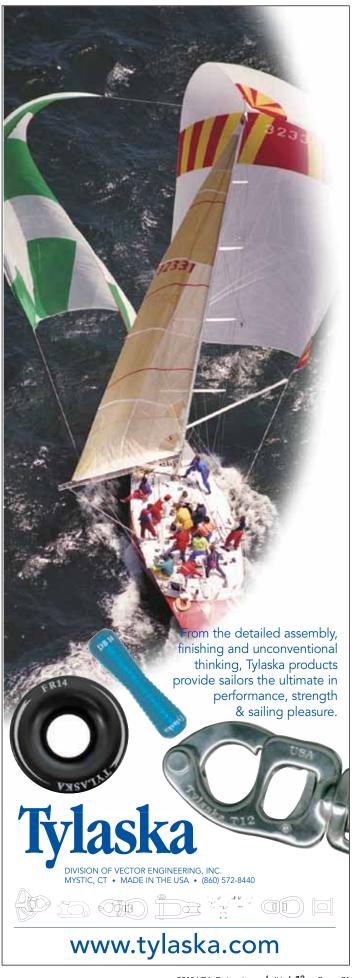
Special rigs and changes in I, J, P and E will be dealt with on a boat-by-boat basis.

Modifications involving changes in (but not limited to) structural configuration, optional materials, ballast and ballast location, engine location, keel, and rudder will be dealt with on a boat-by-boat basis.

Custom or one-off boats will be given "as sailed" or "custom" ratings. (Also see II.E)

When a production boat comes standard with an oversized spinnaker and/or spinnaker pole, the Committee at its discretion may issue an "as sailed" rating. Such rating may or may not be reduced if the spinnaker is cut down to standard dimensions of Section VII.





Helpful info for filling out an NCPHRF application

Getting a PHRF rating for your boat is one of the easiest ways to get involved in the myriad forms of Bay Area racing. If you have a well-known sailboat, it's likely the YRA already has a rating number on file for your boat type. However, many boats have been modified or may have different sail configurations affecting their speed. For this reason, all boats need their measurements submitted to the YRA in order to get a rating certificate. To make it easier, the YRA has prepared the following instructions to help you fill out the NCPHRF rating application on page 81.

For unmodified class boats, common measurements for items such as I, J, P, and E, as well as ballast and displacement, can be found online, in sales brochures, in class rules, or from your sailmaker. However, if you have a modified or non-class boat, or cannot find all the required information for your boat, the following guidelines can help walk you through the required measurements.

If you have a current or expired certificate and need to make changes to your boat's configuration, please contact the YRA office to discuss your changes and what forms may be necessary. Any other questions, please contact the YRA office at (415) 771-9500 or via email at info@yra.org.

SAIL NUMBER

This should be a number that the YRA office has assigned to your boat. Please call the YRA office for more information. Sail Prefix is a country code. This space can be blank or it might say USA or IRL.

CLASS/TYPE

We are looking for the type of boat you have – like a Cal 20 or Islander 36. If your boat is custom-made or one of a kind, please indicate so. If it was designed under some rule, please tell us what rule; e.g., 6-meter, IOR 1/4-ton, etc. In this case, if you have any measurement certificate, no matter how old, please include a copy of it with your application for rating.

ONE DESIGN RATING

Refer to the NCPHRF Rules (www.yra.org) to find out if this applies to you. It is anticipated that other members in your class who know and understand your rules and limitations, as modified by Section V, will monitor the OD ratings.

RIG AND SAIL MEASUREMENTS

What is the source of the information provided? We are looking for where you obtained the information on your certificate. Please indicate by circling which sources apply.

FORETRIANGLE

- I Vertical distance from upper point of 'I' to lower point of 'I' Upper point of 'I' is the highest of:
 - 1. Intersection of mast and highest jibstay.
 - 2. Highest sheave for jib halyard drawn horizontal to mast.

Lower point of 'I' is the sheerline abreast the mast (not the cabin top).

The sheerline is the intersection of the deck and the hull.

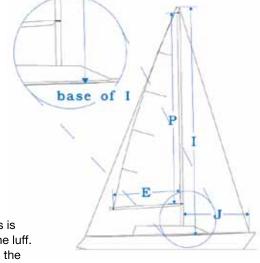
J Horizontal distance from mast to where the forward-most jibstay intersects the deck, or jib tack. Note that 'JC' is no longer on this form.

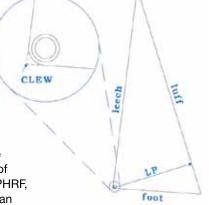
LARGEST HEADSAIL

Largest Headsail percent is LP/J x 100. The LP (Luff Perpendicular) of your jibs is determined by measuring the distance from the clew to the nearest point on the luff. This is done by holding the zero end of a tape measure at the clew (defined as the intersection of the leech and the foot), removing the wrinkles from the area to be measured, and swinging an arc up and down the luff, recording the minimum distance, then dividing by J and multiplying by 100. For example, suppose you measure an LP of 15.5 feet on your biggest headsail, and your J is 10 feet. Your largest headsail is $15.5/10 \times 100 = 155\%$, which happens to be the largest non-penalty headsail allowed under PHRF for a 10-ft J. Your sailmaker is also a source of information on sail dimensions.

SPL = Spinnaker Pole Length

Spinnaker Pole Length is the length of the spinnaker pole when set in position on the mast; measured from the front face of the mast to the extreme outboard end of the pole. Please note the distinction between a whisker pole and a spinnaker pole: A whisker pole may be used to pole out any jib (but may NOT attach to any type of spinnaker), may be of any length, and may be adjustable. Information on your whisker pole is not required by PHRF, and should not be used as an answer for the spinnaker pole length, as it will often draw an unnecessary penalty.





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Lightship April 21st

Duxship May 12th

Farallones
June 09th

Half Moon Bay June 23rd

Jr Waterhouse
July 21st

Wild Card #1
August 4th

Drakes Bay August 18th & 19th

Wild Card #2
September 22nd

The always popular OYRA series gives you 9 chances to escape the confinement of San Francisco Bay and head out to the open waters of the Gulf of the Farallones for competitive and exhilarating ocean racing! We offer divisions for multihulls and PHRF Boats, plus short-handed crews as well. Sign up for the series and be eligible for year-end awards or pick and choose your favorite ocean races.

Visit www.yra.org for notices of race, sailing instructions and to sign up! And, don't forget to mark your calendar for our annual November Trophy Party! Trophies for all YRA races, including the OYRA races, are awarded then.

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ISP ('I' for the spinnaker)

ISP = spinnaker hoist. Measured from the underside of the spinnaker halyard, when drawn horizontally forward from mast, to the level of the sheerline abreast the mast. The sheerline is the intersection of the deck and the hull.

Note: In some cases, 'I' and 'ISP' are the same. If your spinnaker halyard exits the mast above the upper point of 'I' as described above, then your 'ISP' will be greater than 'I'.

JSP (for boats with sprits and asymmetric spinnakers only)

JSP = spinnaker 'J' horizontal distance from mast to the forward most attachment point for the spinnaker tack.

If this location is adjustable, as with an adjustable bow pole, then measure with the bow pole fully extended on centerline.

TYPE OF RIG

Sloops come in two varieties: 'masthead,' where the forestay goes to the top of the mast; and 'fractional,' where the forestay is anchored to the mast somewhere below the top of the mast. Other types of rigs include ketch, yawl, cutter or catboat.

MAST MATERIAL

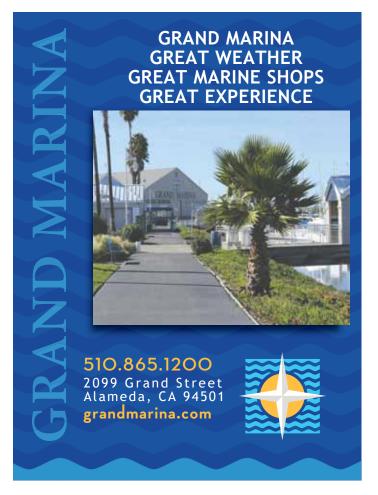
What is your mast made of? Common materials are aluminum, wood, carbon, fiberglass, and 'other.'

STANDING RIGGING MATERIAL

What material are your shrouds made of? In part, we are looking for boats that have changed their standing rigging.

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YRA 1 / Knox - Bonita
May 19th

YRA 2 / Berkeley Circle
June 16th

YRA 3 / South Bay July 14th

YRA 4 / Southampton August 11th

Test your tactics and skills against boats from all over San Francisco Bay! The YRA Summer Series consists of 4 race-days, with 2 races scheduled each day, on popular SF Bay race venues. PHRF Boats, Sport Boats and One-Design Fleets are invited to participate in this fun and competitive series.

Visit www.yra.org for more information on which one-design fleets are participating in the Summer Series, for the notices of race and sailing instructions, and to sign up! And, don't forget to mark your calendar for our annual November Trophy Party! Trophies for all YRA races, including the Summer Series races, are awarded then.

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MAINSAIL

P = Mainsail Hoist (distance between bands)

E = Mainsail Foot (distance from aft edge of mast to the inner edge of the band on the boom)

HB = The total width of the top of the sail from the front of the luff rope to the top aft corner. MGU and MGM

MGU (Main Girth Upper) and MGM (Main Girth Middle) are girths measured on your mainsail. These girths measure the width of mainsails one-quarter and one-half the distance down the leech from the head. Measure your girths by folding the head (front corner of headboard) to the clew, smoothing the leech and marking the fold at the leech (MGM starting point). Next, fold the head to the mid-leech point and mark this new fold on the leech (MGU starting point). Now lay the sail out flat. Hold the zero end of a tape measure at the MGM starting point on the leech. Swinging an arc up and down the luff, record the minimum distance measured as your MGM. Remove the wrinkles from the area to be measured. Repeat this process for measuring your MGU.

Py and Ey are similar to P and E dimensions for the aft sail on ketches, yawls and schooners.



Symmetric spinnakers have the following characteristics: (a) luffs are of equal length; (b) the sail is symmetric about its vertical centerline.

SL = Spinnaker Luff (Refer to the NCPHRF Rules at www.yra.org for the non-penalty limit.) SSMG (Symmetric Spinnaker Mid-Girth)

SSMG is determined by measuring the width of your sail at mid-luff to mid-luff SSF = Spinnaker Foot Length

ASYMMETRIC/CRUISING SPINNAKERS

Non-Penalty Area Limits

Cruising/Asymmetric Spinnakers are limited in area not to exceed the area of I and J or ISP and SPL - based 180% symmetric spinnakers for that boat. To calculate the actual area for the symmetric spinnaker, use the formula for "Area" below, substituting SL (symmetric spinnaker luff) for SLU and SLE.

The formula for determining the actual area of all types of spinnakers is as follows:

Area = (SLU+SLE) x .25 x ASF + (ASMG-.5ASF) x (SLU+SLE)/3

In the case of Symmetric Spinnakers, replace SLU and SLE with SL, ASMG with SSMG, and ASF with SSF.

SLU = Spinnaker Luff Length

SLE = Spinnaker Leech Length

ASMG = Spinnaker mid-girth measured between the mid-points of the spinnaker luff and spinnaker leech

ASF = Spinnaker foot length

Note on ASMG:

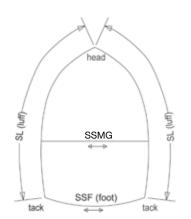
ASMG less than .75 x ASF is not allowed.

How far aft can you articulate your spinnaker tack?

0 degs (fixed)

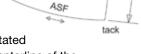
degrees

We want to know if you plan on setting the tack of your cruising or asymmetric spinnaker on a pole that can be squared aft. Sails set from the bow of the boat, or from a non-rotating pole (bow sprit), are of the zero degree category. If the tack of the sail is set on a pole that can be rotated while sailing, we want to know the maximum angle of rotation, measured at the mast between the centerline of the yacht and the pole. If an asymmetric spinnaker is tacked to a spinnaker pole, articulation must be listed as 90 degrees.



head

MGM



continued on page 78



CBRA 1 May 12th - Berkeley Circle

CBRA 2 June 2nd - City Front

CBRA 3 August 5th - Knox CBRA 4
August 25th - Berkeley Circle

CBRA 5 September 29th, - City Front

There's nothing like racing a classic boat with the classic San Francisco Bay as your backdrop! The CBRA gives one-design fleets a 5 race-day series, with 2 races per day, hosted by some of the Bay Area's best yacht clubs.

Visit www.yra.org for more information on which one-design fleets are eligible for the CBRA, for the notices of race and sailing instructions, and to sign up! And, don't forget to mark your calendar for our annual November Trophy Party! Trophies for all YRA races, including the CBRA races, are awarded then.

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Please fill out the following two fields in the "Foretriangle" box:

ISP = Spinnaker hoist, measured from the underside of the spinnaker halyard, when drawn horizontally forward from mast, to the level of the sheerline abreast the mast.

JSP = Farthest distance from front of mast to asymmetric spinnaker tack location. Note that this can be much greater than J on sprit boats.

Setting and Sheeting Limits: For asymmetric spinnakers:

TACK: Sail may be tacked to the deck or to a pole. PHRF Application must state if the pole can be articulated to move the tack off hull centerline and how many degrees it can move. JSP must be recorded if greater than J.

HEAD: Halyard location may be at any height on the mast. If the dimension ISP is greater than I, then ISP must be recorded on the application.

CLEW: Sail may be sheeted consistent with the RRS. Racing Rules of Sailing can be found on the US Sailing website at: www.ussailing.org/rules.

The performance of Cruising/Asymmetric Spinnakers is not yet completely defined. Boats with excessive JSPs or ISPs and boats with the ability to move the tack of the sail off centerline may incur some rating adjustment. The PHRF Committee will be studying the performance of these various arrangements, and, if considered necessary by this committee, this rule and/or its limits may change.

HULL MEASUREMENTS

Drawings and photos are not required for well-documented production boats. However, if the boat is relatively rare, or not common in the Bay Area, drawings and/or photos are a must. We cannot rate an unknown boat using only the information on the application form. Measurements below are for the boats in 'measured trim,' not 'sailing trim,' using IMS wording. Your boat is equipped as it would be for racing, but without crew, sea bags, or consumable supplies, and with all tanks empty.

HULL

LENGTH OVERALL

How long is your boat? If it has a bowsprit, please give the length of the hull and the bowsprit separately.

WATERLINE LENGTH

How long is the part of the boat in the water? Ignore the rudder.

MAXIMUM BEAM

What is the width of your hull at its widest point?

MAXIMUM DRAFT

What is the depth of the lowest point of the keel or board below the waterline? If the boat has a lifting board or keel of any type, draft is measured with this device fully lowered. Give the change in draft with the board raised separately.

DISPLACEMENT

TOTAL

This is the weight of your boat ready to race as described above.

RALLAST

We are looking for the weight of your keel. PHRF requires minimum ballast of 400 pounds. If your boat has 'internal ballast', it should be included. Internal ballast is typically in the form of lead ingots bolted to the hull, and is NOT in the form of usable equipment or supplies. If your boat has been measured under some rating rule, and you have subsequently removed the internal ballast, this change must be reported in writing to the PHRF Committee.

BALLAST MATERIAL

Typical answers here are lead or iron, and sometimes water.

TRAPEZE/HIKING STRAP

These are allowed in One-Design Classes where the class rules clearly state that the hiking aids are allowed. They may not be used unless your PRHF application so indicates.

continued on page 80



Great Vallejo Race
April 28th & 29th

Westpoint Regatta
June 30th

Encinal Regatta
July 28th & 29th

Corinthian Regatta
Sept 29th & 30th

These destination races are some of SF Bay's longest running regattas, bringing boats of all sizes and ratings together for epic racing and fun after-race parties. We offer divisions for all boat types including PHRF boats, multihulls, sport boats, one-design classes, and divisions for short-handed crews and non-spinnaker fleets. Sign up for all 4 weekends, or pick and choose your favorite regattas.

Visit www.yra.org for notices of race, after-race information, sailing instructions and to sign up! And, don't forget to mark your calendar for our annual November Trophy Party! Trophies for all YRA races, including the Weekend Regattas, are awarded then.

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MOVABLE BALLAST

Does your boat have ballast that can be moved while sailing? The possibilities include:

- (a) Water ballast which can be moved from side to side or discharged for runs and restored for beating.
- (b) Keels which can be inclined or canted.
- (c) And others.

Movable ballast presents several difficulties. The biggest is in US Sailing/Racing Rules of Sailing (2017-2020) Rule #51 (Moving Ballast), which states quite clearly that movable ballast is not legal when racing under the US Sailing rules. There are a (very) few races where the race instructions alter the RRS, and specifically allow movable ballast, which is why this is on the PHRF form at all. If you use movable ballast, it is your responsibility to be sure that it is legal in the races in which you are sailing. Just because it is on your PHRF Certificate does not mean you can race with a movable ballast.

KEEL TYPE

FIXED

If your keel cannot be moved while you are sailing, then we consider it fixed.

MOVABLE

If your keel can be moved while you are sailing, then we consider it movable, and we need to know about it. This includes keels that move up and down, pivot around a pin (swing keel), or cant from side to side.

KEEL/CENTERBOARD

This is really a sub-class of movable keels, where the boat has a conventional keel, but also has a foil that can extend down below the bottom of the keel.

ENGINE

Do you have an inboard, outboard, or no engine at all?

PROPELLER

We need to know the number of blades on the propeller, and whether they are fixed blades or folding/feathering. If the engine is an outboard, we assume the propeller is not in the water while you are racing, so in the case of outboards, we do not consider what type of propeller you have.

MODIFICATIONS

UNMODIFIED CLASS BOAT

Check this box if your boat is a serially produced yacht that has not been altered.

MODIFIED CLASS BOAT

Check this box if your boat was originally a production yacht, but has undergone changes since its original manufacture. Examples include: a new keel, change in ballast, new rudder, new mast made of different material than the original, different number of spreaders on the mast, change in hull shape, etc. Include anything that would make you *unwelcome* racing against your unmodified sisterships.

NON-CLASS CUSTOM BOAT

Check this box if your boat is essentially a one-of-a-kind custom boat. If your boat is of this type, please refer to the NCPHRF Rules at www.yra.org for information we will need to handicap your boat.

DESCRIBE MODIFICATIONS

Please explain modifications, movable ballast, hiking aids here. Please feel free to write on the back of the form if you need more space.

RATING FEES

New Certificates: YRA Members, \$50; Non-Members, \$75 Renewals: YRA Members, \$35; Non-Members, \$65

Out of Area Certificates (boats hailing from outside of US Sailing Area G): \$75

CHANGES TO EXISTING CERTIFICATES

YRA Members: No charge Non-Members: \$30

NORTHERN CALIFORNIA PHRF RATING APPLICATION 2018

1070 Marina Village Pkwy, Ste 202-G, Alameda, CA 94501

Phone: (415) 771-9500 E-mail: PHRF@yra.org Fax: 415-276-2378

THIS FORM IS FOR BOATS NOT PREVIOUSLY RATED OR BOATS WHICH DID NOT HAVE A 2017 CERTIFICATE.

The NCPHRFCommittee has no responsibility for the seaworthiness or safety of yachts rated, but cites US SAILING Fundamental Rule 4, "It shall be the sole responsibility of each yacht to decide whether or not to start or to continue to race".

Roat Model:					
Exp. State, Zip: Manufacturer: Yr Built: Exeming Phone: Designer: Yr. Designed: Exp. State, Zip: Properties Propertie	Name:		Boat Name:		Sail Number:
Designer: Designer: Yr. Designed: Property Pr	Street:		Boat Model:		
# Saling #:	City,State,Zip:		Manufacturer:		Yr Built:
Please refer to the NCPHRF Rules and Guidelines for assistance in successfully completing this application Do you want an ORN (one Design Rating)? What is the source of the information provided? YES NO N/A Measurement Certificate Sales Brochure Class Rules Salimaker Designer Own Measurem Please provide accurate drawings or pictures showing side and end views of your boat from deck to bottom of keel and attach to this application. Where possible, give measurements in feet and decimals. Foretriangle I: J: J: Wes. Complete the following: Symmetric Spinnaker Yes/No Asymmetric/Cruising Spinnaker Yes/No Bsymmetric/Cruising Spinnaker Yes/No Bsymmetric/Cruising Spinnaker Yes/No Bsymmetric/Cruising Spinnaker Yes/No SsMG: SSMG	Evening Phone:	Daytime Phone:	Designer:		Yr. Designed:
Please refer to the NCPHRF Rules and Guidelines for assistance in successfully completing this application Do you want an ORN (one Design Rating)? What is the source of the information provided? YES NO N/A Measurement Certificate Sales Brochure Class Rules Salimaker Designer Own Measurem Please provide accurate drawings or pictures showing side and end views of your boat from deck to bottom of keel and attach to this application. Where possible, give measurements in feet and decimals. Foretriangle I: J: J: Wes. Complete the following: Symmetric Spinnaker Yes/No Asymmetric/Cruising Spinnaker Yes/No Bsymmetric/Cruising Spinnaker Yes/No Bsymmetric/Cruising Spinnaker Yes/No Bsymmetric/Cruising Spinnaker Yes/No SsMG: SSMG	Email Address:		U.S. Sailing #:	YRA Member /	#:
Please refer to the NCPHRF Rules and Guidelines for assistance in successfully completing this application Do you want an ODR (One Design Rating)? YES NO N/A Measurement Certificate Sales Brochure Class Rules Salimaker Designer Own Measurement Certificate Sales Brochure Class Rules Salimaker Designer Own Measurement Certificate Sales Brochure Class Rules Salimaker Designer Own Measurement Please provide accurate drawings or pictures showing side and end views of your boat from deck to bottom of keel and attach to this application. Where possible, give measurements in feet and decimals. Foretriangle Foretriangle J: J: J			Marina:		Berth/Slip #:
Foretriangle	Do you want an ODR (One YES NO Please provide acc	e Design Rating)? Wha N/A Measurement Certi curate drawings or pictures sho	at is the source of the informati tificate Sales Brochure Class lowing side and end view	tion provided? Rules Sailmaker ws of your boat	Circle all that apply. Designer Own Measurement from deck to bottom
Length Overall:	Foretriangle I: J: Largest Headsail: % J SPL ISP: JSP Type of Rig: Mast Material: Standing Rigging	Main P:	Symmetric Spinnaker Yes/No If yes, complete the following. SL: SSMG:	Asymmetr Ye If yes, c SLU: SLE: ASMG:	ric/Cruising Spinnaker fes/No
Modifications Describe modifications/Comments/Moveable Ballast/Trapeze or Hiking Straps below: The NCPHRF rating certificate is a contract between you, the NCPHRF Committee, and your competitors. You and your competitors expect this form to be accurate and that the reported characteristics will be maintained while racing. Failure to advise the NCPHRF Committee in writing of ANY modification to your boat which will alter its sailing performance may be grounds for protest and disqualification of the yacht. Your rating is valid through December 31 of the year issued. I certify that the above information is accurate and correct, that I have read the NORTHERN CALIFORNIA PHRF RULES AND GUIDELINES, and concur with, and agree to sail by those terms and conditions. Signature of owner Date: Rating Fees: \$100 (includes YRA membership) or \$50 (YRA member with a current membership) or \$75 (Non-YRA Member and out of area vessels) Make check payable to YRA. To pay by MasterCard or VISA please provide card information below, including billing street address and zip code Card Number: Exp Date: CVV # Name on Card: Card Holder's Signature: Billing Address: Office use only	Length Overall: Waterline length: Maximum Beam:	Total: Ibs Ballast: Ibs Ballast Material: Ibs # of Trapezes/Hiking Straps: Is any of your ballast	Fixed, Moveable or Inb	board, Outboard	# of Blades (2 or 3)? Fixed, Folding or
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Pacific INTER Yacht Association

~ ANNOUNCEMENT OF 2018 REGATTAS ~

CHISPA

Hosted by • TBD

PICYA Small Boat Perpetual Trophy Laser All ages

LIPTON CUP SERIES

Hosted by Richmond Yacht Club • Saturday, June 16

Big Lipton

Larry Knight Perpetual Challenge

Little Lipton

Admiral's Perpetual Trophy

YOUTH REGATTA

Hosted by Sequoia YC and BAYS • September 1-2

Division A **Optimist** 10 & under **Optimist** Division B 12 & under El Toro Division C 16 & under CFJ Division D Grades 8-12

Go to www.picya.org for Regatta News=

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A Cal 20 renaissance is well underway and our numbers are growing. We're competitive and affordable.

COME OUT AND JOIN US!



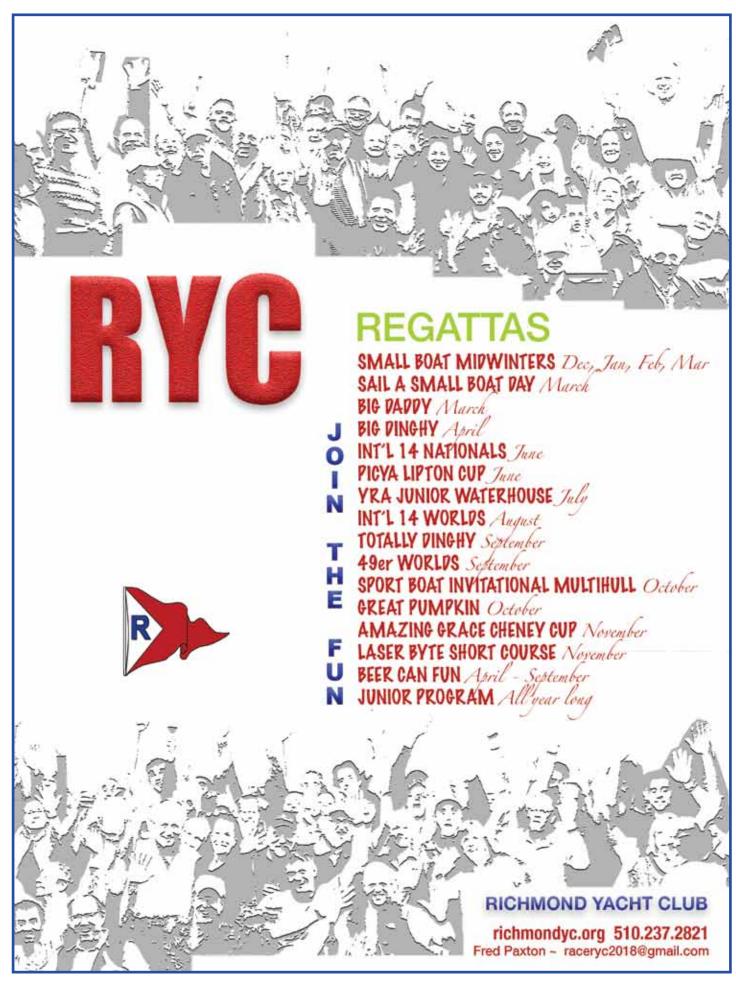
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